Changes to the Calendar 2009-2010

The following changes have been made to the Calendar since its publication in March, 2009.

<table>
<thead>
<tr>
<th>Page Number</th>
<th>Change</th>
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</table>
| 5           | Important Notices  
Add #14:  
14. Procedure for Rescheduling Exams Cancelled because of Winter Weather  
If the campus is closed because of inclement weather for a day or part of a day during the December exam period, all missed examinations will be rescheduled on the first Saturday of the Winter term. For each rescheduled exam, the time and room location will be the same as for the originally scheduled examination. A notice to this effect will be posted on the UTSC homepage and the campus Snow Line. |
| 7           | Sessional Dates: 2009 Fall Session  
**Note:** The following date is in the printed *Calendar* but was for a time missing from the online *Calendar*:  
Thursday, December 3 **UTSC Monday:** Last day of classes and last day for submission of term assignments in F courses that normally meet on a Monday. |
| 8           | Senior Administrators of the University of Toronto Scarborough  
Vice-Principal (Academic) & Dean - Change title to: Dean & Vice-Principal (Academic) and name to: Rick Halpern, Ph.D.  
Vice-Dean - Change title to: Vice Dean (Academic)  
Interim Vice-Principal, Research - Delete "Interim" and change name to: Malcolm M. Campbell, M.A., Ph.D.  
Chair, Department of Management Change to: Acting Chair Department of Management, Jason Wei, B.Sc, M.B.A., Ph.D. |
| 27          | Minor Program in African Studies  
Add the following to the options in Requirement 3:  
POLA90H Politics, Corruption and Violence |
| 31          | Specialist Program in Medical Anthropology  
Add **ANTA11H** to the options in Requirement 3. |
| 31          | **ANTA01H**  
Add **ANTA01H** to the exclusions. |
| 31          | **ANTA02H**  
Add **ANTA02H** to the exclusions. |
| 35          | **ANTC35H**  
Add **ECMB09Y & STAB22H** to the exclusions. |
<table>
<thead>
<tr>
<th>Page</th>
<th>Course/Program</th>
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<tbody>
<tr>
<td>35</td>
<td>ANTC47H</td>
<td>Add &quot;Science credit&quot; at the end of the course description.</td>
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<tr>
<td>42</td>
<td>Specialist Program in Conservation Biology</td>
<td>Change Supervisor to C. Hasenkampf.</td>
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<tr>
<td>43</td>
<td>Specialist Program in Human Biology</td>
<td>Change Supervisor to A. Ashok.</td>
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<td>43</td>
<td>Specialist Program in Human Biology</td>
<td>Suggested course sequence, Year 1: Change [PHYA10H &amp; PHYA11H] to [PHYA10H or PHYA11H].</td>
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<tr>
<td>46</td>
<td>BGYC15H</td>
<td>Change HUM265H exclusion to HMB265H.</td>
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<tr>
<td>53</td>
<td>Specialist Program in Biological Chemistry</td>
<td>Fourth Year: Change BGYD01Y, BGYD02Y &amp; BGYD03H to BGYD98Y, BGYD99Y &amp; BGYD95H.</td>
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<tr>
<td>57</td>
<td>CHMD69H</td>
<td>Change BGYB13H prerequisite to BGYC13H.</td>
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<tr>
<td>60</td>
<td>CITC02H</td>
<td>Change the prerequisite to [CITB01H &amp; permission of instructor] and add CITC01H as recommended preparation.</td>
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<tr>
<td>62</td>
<td>Minor Program in Classical Studies</td>
<td>Add the following note at the end of the program requirements: <strong>Note</strong>: Students who were enrolled at UTSC prior to the 2009 Summer Session may substitute one of CLAA02H or CLAA03H for CLAA06H in Requirement 3. Students who have both CLAA02H &amp; CLAA03H may substitute one of the courses for CLAA04H in Requirement 1.</td>
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<tr>
<td>66</td>
<td>Specialist Program in Computer Science, Comprehensive stream</td>
<td>Writing requirement: Add ENGB09H to the options.</td>
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<td>78</td>
<td>Concurrent Teacher Education</td>
<td>Change Academic Advisor (Mathematical Sciences) from TBA to X. Jiang, Email: <a href="mailto:jiang@utsc.utoronto.ca">jiang@utsc.utoronto.ca</a></td>
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<td>79</td>
<td>Academic status in CTEP</td>
<td>Change the GPA in #4 (Probation in CTEP continued) from 2.50 to 2.70.</td>
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<td>80</td>
<td>CTEP program requirements (Bachelor of Education courses)</td>
<td>Change c) and d) from Year 3 or 4 to Year 4.</td>
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<td>80</td>
<td>CTEC01H</td>
<td>Add exclusion: CTE250H.</td>
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<td>81</td>
<td>Major Program in Diaspora and Transnational Studies</td>
<td>Change HIDD31H in Group A (Humanities) courses to HISD31H.</td>
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<td>85</td>
<td>Major Program in Economics for Management Studies - Program Admission. Replace the entry with: &quot;<strong>Note:</strong> Registration in this Program is limited. Students must have completed a minimum of four full credits to be considered for this program. Required courses include ECMA04H, ECMA06H, MATA32H, MATA33H. Decisions will be made on the basis of cumulative GPA. Students may apply until they have completed up to 10 full credits, and admission will be on the basis of all grades received. Students who have completed more than 10 full credits will not be considered for admission to the Program. Students should be aware that the Mathematics requirement implies that Grade 12 Calculus is a requirement for entry into this program. <strong>Note:</strong> Students in the B.B.A. may not jointly enrol in the Major Program in Economics for Management Studies.&quot;</td>
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<td>89</td>
<td>ECMC43H</td>
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<td>Add exclusion: RMS481H, (MGT481H).</td>
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<td>90</td>
<td>ECMC52H</td>
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<td>Add exclusion: ECMC58H</td>
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<td>91</td>
<td>English</td>
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<td>Delete program supervisor.</td>
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<td>92</td>
<td>Specialist &amp; Major Programs in English</td>
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<td>Change program supervisor to C. Bolus-Reichert (416-287-7162).</td>
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<td>93</td>
<td>Minor Program in English Literature</td>
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<td>Change program supervisor to C. Bolus-Reichert (416-287-7162).</td>
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<td>95</td>
<td>ENGB60H</td>
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<td>Change the deadline for submission of portfolios from the first Monday of October to the first Tuesday of August.</td>
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<td>120</td>
<td>FREA17H</td>
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<td>Change exclusions to: Native or near-native proficiency; (FSL161Y). In addition, FREA17H may not be taken after or concurrently with FREB01H, FREB02H, FREB17H, FREC01H, FREC02H, FREC05H, FREC06H or FREC18H.</td>
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<td>125</td>
<td>Major Program in Human Geography</td>
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<td>Requirement 4: Change title of GGRD01H to: Supervised Research Project.</td>
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<td>125</td>
<td>Major Program in Physical and Human Geography</td>
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<td>Requirement 3: Change GGRB10H to [CITC03H or (GGRB10H)]</td>
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<td>125</td>
<td>GGRA02H &amp; GGRA03H</td>
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<td>Add GGR107H &amp; GGR117Y to the exclusions.</td>
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<td>125</td>
<td>GGRA30H</td>
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<td>Change EESC03H in exclusions to: GGRA30H may not be taken after or concurrently with EESC03H.</td>
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| 132  | GASD01H, GASD02H, GASD20H, GASD40H, GASD50H  
Change prerequisite to: [GASA01H & GASA02H & one C-level course from the options in the specialist or major program requirement 2] or permission of instructor. |
| 139  | HISB50H  
Change modern history prerequisite from "credit" to "course". |
| 142  | **NEW COURSE**  
HISD02H Independent Studies: Senior Research Project |
| 144  | HISD58H  
Add to description: Africa and Asia area. |
| 149  | Specialist (Joint) Program in Industrial Microbiology  
Requirement 6: Remove the asterisk (*) from IMCC01H, IMCC02H, IMCC03H & IMCC04H. |
| 153  | Specialist Program in International Development Studies (BA)  
Requirement 6: delete POLC98H (see POLC94H) |
| 156  | Major Program in International Development Studies  
Requirement 4a: delete POLC98H (see POLC94H) |
| 160  | Major Program in International Studies  
Requirement 6 - Stream 1: Change HUMC54H (Media and Popular Culture in East Asia) to GASC41H (Media and Popular Culture in East and Southeast Asia). |
| 163  | IEEC03H  
Change exclusion to: IEEC03H may not be taken after or concurrently with HISD03H. |
| 166  | JOUA06H  
Change prerequisite to: 10 credits including [MDSA21H or (JOUA01H)], [MDSA22H or (JOUA02H)], [MDSB26H or (JOUB01H)], [MDSB27H or (JOUB02H)], HUMB11H. |
| 167  | JOUB11H, JOUB14H & JOUB18H  
10 credits including [MDSA21H or (JOUA01H)], [MDSA22H or (JOUA02H)], [MDSB26H or (JOUB01H)], [MDSB27H or (JOUB02H)], HUMB11H. |
| 179  | Management: Admissions  
Sentence which begins "Applications to enter the Co-op B.B.A." - add to the end of the sentence: "...in the Winter session Subject POST selection cycle only." |
| 180  | Co-operative Programs in Management: Program Requirements (Curriculum)  
Replace the first three sentences ("Co-op students will follow...commencement of their second work term") with: "Co-op students follow the course requirements of one of the specialist programs described later in this section. In addition, all co-op students must take MGTC36H prior to commencement of their second work term." |
| 180  | Co-operative Programs in Management: Program Requirements (Work Terms)  
Delete from second bullet: "for students in the Specialist Program in Management only)" |
<table>
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| 182  | Specialist Program in Management and Accounting  
 Add **MGTC41H, MGTC42H & MGTC45H** to the options in Requirement 3 (strategic management)  
 Add Requirement 7: Two-and-a-half additional credits from courses other than MGT/ECM, to include at least 1 full credit from courses within the Department of Humanities. |
| 186  | **MGTB27Y**  
 Add exclusion: PSY332H. |
| 197  | **MATA37H**  
 Change exclusions MAT133H, MAT135H & MAT137H to MAT133Y, MAT135Y & MAT137Y. |
| 201  | Major Program in Media Studies  
 Requirement 4 - C-level: Change **MDSC04H** to **MDSB05H** and move to B-level.  
 Requirement 4 - C-level: Change **MDSC08H** to **MDSC64H**.  
 Requirement 4 - C-level: Change **IDSC12H** to **IDSC08H**. |
| 202  | Major Program in Media Studies  
 New Media stream: Change **MDSC08H** to **MDSC64H**  
 New Media stream: Change **VPSC77H** to **VPSB64H**  
 New Media stream: Change **VPSC61H** to **VPSC71H**  
 New Media stream: Delete **VPSC75H & VPSC76H** |
| 203  | **MDSA01H**  
 Change title to: "Introduction to Media Studies" |
| 204  | **MDSB27H**  
 Delete **[MDSB26H or (JOUB01H)]** from the prerequisites. |
| 204  | **MDSB61H**  
 Change prerequisite from "**MDSA02H**" to "Any 4.0 credits". |
| 206  | Specialist Program in Neuroscience  
 Requirement 2 - **PSYB07H**: Delete "**(STAB22H may not be used to fulfil this requirement)" |
| 208  | **NROB60H**  
 Add CSB332H to the exclusions. |
| 219  | **PHLC60H**  
 Add PHL331H (Arts & Science & UTM) & PHL332H (UTM only) as exclusions. |
| 223  | Specialist Program in Natural Sciences  
 Change Requirement 1c to: One credit in Physics: **[PHYA10H or PHYA11H]** & **[PHYA21H or PHYA22H]** |
| 225  | **PSCB01H**  
 Add **PHYA11H** as an alternative to **PHYA10H** in the prerequisites. |
| 230  | **PHYC24H**  
 Replace PHY457H with PHY356H, (PHY355H) in the exclusions. |
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<tbody>
<tr>
<td>236</td>
<td><strong>NEW COURSE</strong>&lt;br&gt;<strong>POLC42H</strong> Topics in Comparative Politics</td>
</tr>
<tr>
<td>243</td>
<td>Major Program in Mental Health Studies&lt;br&gt;Requirement 3: Remove the a)&lt;br&gt;Requirement 3: Change 3b) to Requirement 4&lt;br&gt;Requirement 3: Change 3c) to Requirement 5&lt;br&gt;Requirement 3: Change 3d) to Requirement 6&lt;br&gt;Requirement 3: Change 3e) to Requirement 7</td>
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<td>244</td>
<td>Specialist Program in Psychology&lt;br&gt;Requirement 7: Move <strong>PSYD34H</strong> from 7b) to 7a).</td>
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<td>246</td>
<td>Specialist (Co-operative) Program in Psychology&lt;br&gt;Requirement 7: Delete <strong>PSYD34H</strong> from 7b).&lt;br&gt;Following Requirement 8, add Requirement b) as follows:&lt;br&gt;• <strong>Other Disciplines (2.0 full credits)</strong>&lt;br&gt;Students must select at least 2.0 credits at the B-level or higher in a discipline or disciplines other than Psychology.</td>
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<td>248</td>
<td><strong>PSYB21H</strong>&lt;br&gt;Add exclusion: <strong>CTE100H</strong>.</td>
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<td>253</td>
<td><strong>PSYD35H</strong>&lt;br&gt;Change <strong>PSYB65H</strong> &amp; <strong>PSYC62H</strong> from exclusions to prerequisites.</td>
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<td>254</td>
<td>Major Program in Religion&lt;br&gt;Requirement 4: Add <strong>RLGD02H</strong> to the options.&lt;br&gt;Requirement 5: Add <strong>ANTC55H</strong> &amp; <strong>GASB30H</strong> to the options.</td>
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<td>255</td>
<td>Minor Program in Religion&lt;br&gt;Requirement 4: Add <strong>RLGD02H, ANTC55H, CLAC22H &amp; GASB30H</strong> to the options.</td>
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<td>257</td>
<td><strong>RLGC06H</strong>&lt;br&gt;Delete <strong>RLGB06H</strong> from the prerequisites.</td>
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<td>257</td>
<td><strong>RLGC07H &amp; RLGC08H</strong>&lt;br&gt;Delete <strong>(PHLB40H)</strong> from the prerequisites.</td>
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<td>258</td>
<td><strong>REINSTATED COURSE IN SOCIETY &amp; ENVIRONMENT</strong>&lt;br&gt;<strong>SOED01H</strong> Environmental Internship&lt;br&gt;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.&lt;br&gt;Prerequisite: Completion of at least 10 full credits and prior permission of the program supervisor.</td>
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<tr>
<td>262</td>
<td><strong>SOCB56H</strong>&lt;br&gt;Delete course.</td>
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<tr>
<td>263</td>
<td>SOCB57H</td>
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<tr>
<td>277</td>
<td><strong>NEW COURSE</strong></td>
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<tr>
<td>278</td>
<td>VPHC68H</td>
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<td>279</td>
<td>Specialist Program in Arts Management</td>
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<td>282</td>
<td>Major Program in Drama</td>
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<td>286</td>
<td>Major &amp; Minor Programs in Music</td>
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<td>293</td>
<td>VPSC70H</td>
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<td>297</td>
<td>WSTA01H</td>
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<td>WSTD03H</td>
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<td>299</td>
<td>WSTD04H</td>
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Applicants holding the International Baccalaureate Diploma (IB)
Change web address to:

Applicants from the United States of America
Change web address to:

Students in Debt to the University
Change entry to:
If, at the end of the academic session, all debt to the University has not been paid, the University of Toronto Scarborough imposes the following academic sanctions until such time as 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 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 will not be provided
- registration is refused to re-enrolling students (i.e. returning after suspension or an absence of twelve months or more)

Registration - Fees payment
Change fax number in last sentence to: 416-978-2610.

Registration - Summer Session
Change sessions in first sentence to 2008 Summer, 2008 Fall and 2009 Winter.

Registration - Winter Session
Change sessions in first sentence to 2008 Fall, 2009 Winter and 2009 Summer.
<table>
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“Always the university must foster the search for truth...it is the search for truth and not truth which keeps civilization alive.”


2009/2010

1265 Military Trail, Toronto, Ontario, Canada, M1C 1A4
www.utsc.utoronto.ca
GREETINGS FROM THE PRINCIPAL

Welcome to the 2009/10 academic year at U of T Scarborough (UTSC). This is a truly transformative time in the life of our campus. We are seeing significant changes taking place as a result of the committed efforts of our University community and partners.

U of T Scarborough offers a stimulating environment for the pursuit of excellence in scholarship, research and innovation and you are the beneficiaries of such an environment. Despite our relative youth, we already have developed programs that are recognized, not just locally, but around the world, for their excellence and innovative approaches to teaching and learning.

We offer the University’s only formal co-operative programs including the highly sought-after Bachelor of Business Administration degree. Our joint programs with Centennial College address the value placed on blending theory and practice. The Concurrent Teacher Education Program (CTEP) was developed in collaboration with the Ontario Institute for Studies in Education (OISE) at U of T and provides a direct route to becoming a school teacher in the fields of Chemistry, Mathematics, Physics and French. At the graduate level, our plans include expansion of graduate programs in a number of arts and science disciplines.

We are firmly committed to creating a student experience for you that will be personally and professionally fulfilling. We’re adding faculty, addressing space shortages and have great plans for new buildings and facilities that will further stimulate lifelong learning here.

UTSC is now a mid-sized, comprehensive university campus with more than 10,000 students and nearly 600 faculty and staff. As part of the University of Toronto’s tri-campus system, we are recognized for our research, teaching and for our ability to connect students to the workforce through a strong experiential learning platform. Our campus is thriving and establishing itself as a centre for intellectual, cultural and scholastic exchange. I trust your time with us will be positively transformative as well.

Best wishes for a successful year,

[Signature]

Franco J. Vaccarino, Ph.D.
Principal, University of Toronto Scarborough
Vice President, University of Toronto
# Table of Contents

Greetings from the Principal .................................................. 2
Statement of Institutional Purpose ........................................... 4
Statement on Human Rights .................................................... 4
Important Notices ............................................................... 4
Sessional Dates ..................................................................... 6
Officials of the University of Toronto ........................................ 8
Senior Administrators of the University of Toronto Scarborough . 8
Departmental Structure .......................................................... 8
University of Toronto Scarborough: Looking Back, Moving Forward 9
Writing at U of T Scarborough ................................................. 9
Academic Resources and Student Services ................................. 10
Degrees ................................................................................. 16
Programs of Study ............................................................... 17
Co-operative Programs General Information ............................... 19
Joint Programs with Centennial College ................................... 20
Language Citation .................................................................. 21
Guide to Programs & Courses Offered ....................................... 22
Programs .................................................................................

Courses .................................................................................

How to Read a Course Description ........................................... 26
Program and Course Descriptions ............................................ 27
Admissions ............................................................................. 300
Awards .................................................................................. 303
Academic Regulations ............................................................ 314
Course Selection .................................................................... 315
Overall Standing .................................................................... 319
Examinations ........................................................................ 325
Special consideration, petitions and appeals .............................. 326
University of Toronto Policies ................................................. 330
Index ...................................................................................... 331

For updates to this Calendar, check www.utsc.utoronto.ca/timetable. Please note that not all courses listed in this Calendar are offered every year. For course timetables, visit www.utsc.utoronto.ca/timetable.
Statement of Institutional Purpose

Below is an extract of the University of Toronto’s Statement of Institutional Purpose. To see the statement in its entirety, please refer to Governing Council website at: http://www.governingcouncil.utoronto.ca/policies.htm.

PURPOSE OF THE UNIVERSITY

The University of Toronto is dedicated to fostering an academic community in which the learning and scholarship of every member may flourish, with vigilant protection for individual human rights, and a resolute commitment to the principles of equal opportunity, equity and justice.

THE UNIVERSITY COMMUNITY

The University of Toronto believes that it best serves Canada and the wider world by pursuing to the limit of its abilities its fundamental mandates of research and teaching in the spirit of academic freedom. In seeking to achieve the above objectives, the University of Toronto is committed to four principles:

1. Respect for intellectual integrity, freedom of enquiry and rational discussion;
2. Promotion of equity and justice within the University and recognition of the diversity of the University community;
3. A collegial form of governance;
4. Fiscal responsibility and accountability.

The University values its graduates as lifelong members of the University community who make significant contributions to its ongoing life and reputation.

The University recognizes that in the foreseeable future the majority of its funding will come from public sources, and thanks the people of Ontario and of Canada for this support.

Statement on Human Rights

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

• acknowledges that it conducts its teaching, research and other activities in the context of a richly diverse society;
• recognizes that the attainment of excellence in pursuit of its mission is furthered by the contribution made by persons reflecting this rich diversity;
• acts within its purview to prevent or remedy discrimination or harassment on the basis of race, gender, sexual orientation, age, disability, ancestry, place of origin, colour, ethnic origin, citizenship, creed, marital status, family status, receipt of public assistance or record of offences;
• acts conscientiously in keeping with its own policies and existing legislation related to human rights, such as its Code of Behaviour on Academic Matters, its Policies and Procedures: Sexual Harassment, its Employment Equity Policy and the Human Rights Code of the Province of Ontario.

Important Notices

1. Changes in Programs of Study (Subject Poets) and/or Courses

The programs of study that the Calendar lists and describes are available for the year(s) to which the Calendar applies. They may not necessarily be available in later years. If the University or the Faculty must change the content of programs of study or withdraw them, all reasonable possible advance notice and alternative instruction will be given. The University will not, however, be liable for any loss, damage, or other expenses that such changes might cause.

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

2. Regulations and Policies

As members of the University of Toronto community, students assume certain responsibilities and are guaranteed certain rights and freedoms.

The University has several policies that are approved by the Governing Council and which apply to all students. Each student must become familiar with the policies. The University will assume that he or she has done so. The rules and regulations of the Faculty are listed in this Calendar. In applying to the Faculty, the student assumes certain responsibilities to the University and the Faculty and, if admitted and registered, shall be subject to all rules, regulations and policies cited in the Calendar, as amended from time to time.

All University policies can be found at: http://www.governingcouncil.utoronto.ca/policies.htm

Those which are of particular importance to students are:
• Code of Behaviour on Academic Matters
• Code of Student Conduct
• Grading Practices Policy
• Policy on Official Correspondence with Students

More information about students' rights and responsibilities can be found at:
http://www.students.utoronto.ca/The Baseline Rights and Rules.htm

3. Enrolement Limitations
The University makes every reasonable effort to plan and control enrolment to ensure that all of our students are qualified to complete the programs to which they are admitted, and to strike a practicable balance between enrolment and available instructional resources. Sometimes such a balance cannot be struck and the number of qualified students exceeds the instructional resources that we can reasonably make available while at the same time maintaining the quality of instruction. In such cases, we must reserve the right to limit enrolment in the programs, courses, or sections listed in the Calendar, and to withdraw courses or sections for which enrolment or resources are insufficient. The University will not be liable for any loss, damages, or other expenses that such limitations or withdrawals might cause.

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

5. Person ID (Student Number)
Each student at the University is assigned a unique identification number. The number is confidential. The University, through the Policy on Access to Student Academic Records, strictly controls access to Person ID numbers. The University assumes and expects that students will protect the confidentiality of their Person IDs.

6. Fees and Other Charges
The University reserves the right to alter the fees and other charges described in the Calendar. Note: Specific tuition and fees information can be found at www.fees.utoronto.ca

7. 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(1)(a) of the University of Toronto Act, 1971. It is collected for the purpose of administering admission, registration, academic programs, university-related student activities, activities of student societies, financial assistance and awards, graduation and university advancement, and for the purpose of statistical reporting to government agencies. At all times it will be protected in accordance with the Freedom of Information and Protection of Privacy Act. If you have questions, please refer to www.utoronto.ca/privacy or contact the University Freedom of Information and Protection of Privacy Coordinator at 416-946-7309, Searle-Price Building, room 301, 12 Queen’s Park Crescent West, Toronto, ON, M5S 1A9. An expanded version of this Notice can be found at http://www.fipa.utoronto.ca/policy/noci.htm

8. Separate Calendars are published by the Faculty of Arts and Science and by the University of Toronto Mississauga. Students are reminded that the University of Toronto Scarborough is a separate faculty of the University and that rules covering students registered at University of Toronto Scarborough may differ from those elsewhere in the University.

9. It is the responsibility of students to see that their academic programs meet University of Toronto Scarborough’s regulations in all respects.

10. Calendar and Calendar changes
The information published in this calendar outlines the rules, regulations, curricula and programs for the University of Toronto Scarborough. The University of Toronto Scarborough reserves the right to change without notice any information contained in this Calendar, including any rule or regulation. The publication of information in this Calendar does not bind the University to the provision of courses, programs or facilities as listed herein. Go to Quick Links at www.arts.utoronto.ca for the most up-to-date copy of this Calendar. You will also find any amendments to the Calendar posted there.

Please note that, as of 2010/11, the University of Toronto Scarborough plans to discontinue its practice of giving a hard copy of the Calendar to returning students. Hard copies will continue to be made available to new students.

11. ACADEMIC OFFENCES ARE A SERIOUS MATTER. See the Code of Behaviour on Academic Matters at http://www.governingscouncil.utoronto.ca/policies.htm

12. Class attendance
Class attendance is an important aspect of university studies. Though it is not mandatory, students are likely to place themselves at a distinct disadvantage if they do not attend. They cannot expect any special consideration on the grounds of non-attendance. In particular, newly-admitted students who are unable to attend during the first two weeks of classes are strongly advised to consider waiting until a future session before beginning their studies. (New students who decide to wait until a future session should contact Admissions and Student Recruitment to arrange a formal deferment of the Offer of Admission.)

13. Official correspondence
Students are responsible for ensuring that ROSI contains a valid postal address and a university-issued email address (see the Policy on Official Correspondence with Students at http://www.governingscouncil.utoronto.ca/policies.htm). Note: Email is the University’s primary method of communicating with students regarding registration, ROSI notices, student accounts and other important business. All U of T students are provided with a campus email address through the UTORemail service. Setting up a UTORemail account is mandatory for all University of Toronto students.
Sessional Dates

There are three academic sessions: Summer Session (May to August), Fall Session (September to December) and Winter Session (January to April). For dates related to courses on other campuses, see the appropriate Calendar or registration guide. Please refer to the Registrar’s Office website at www.utsi.utoronto.ca/registrar for other important registration, financial and petition deadlines.

### ROSE section code

<table>
<thead>
<tr>
<th>Session</th>
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<tr>
<td>Summer Session</td>
<td>May - June</td>
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<td>September - April</td>
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For ROSE hours on deadline dates, go to http://www.rose.utoronto.ca/hours.html

### Examination schedules

Examination schedules are posted on the web at: http://www.utsi.utoronto.ca/registrar as soon as they are finalized.

The date of posting is normally so late that:

- August examination period: Mid-July
- December examination period: Mid-November
- April examination period: Mid-March

**Note:** Examinations (including deferred examinations) and term tests may be held on any day of the week. Every effort will be made to avoid scheduling them on Sundays, however, U of T Scarborough reserves the right to do so if necessary.

### 2009 Summer Session

- **Friday, May 1**
  - Last day to pay fees.
  - Classes begin in Y & F courses.
  - Victoria Day — University closed.
  - Last day to add Y and F courses.
- **Monday, May 4**
- **Monday, May 18**
  - Last day to drop F courses without academic penalty and have them removed from the transcript.
  - Last week of classes in F courses. (Final examinations will be held in a class period during this week.)
  - Last day for submission of term assignments in F courses.
- **Monday, June 15**
  - Classes begin in S courses.
  - Last day to request a deferred examination in an F course.
- **Monday, June 16**
  - Reading Week. (Classes continue on other campuses.)
- **Sunday, June 28**
- **Tuesday, June 30**
- **Friday, July 3**
  - Canada Day — University closed.
- **Monday, July 6**
  - Last day to add S courses.
- **Friday, July 10**
  - Last day to pay the deferred examination fee in F courses.
  - Last day to drop S courses without academic penalty and have them removed from the transcript.
- **Sunday, July 12**
- **Monday, July 19**
  - Last day to drop S courses without academic penalty and have them removed from the transcript.
- **Friday, July 31**
  - Last day of classes and last day for submission of term assignments in S & Y courses.
- **Monday, August 3**
  - Civic holiday — University closed.
  - Last day to confirm intention to graduate at the Fall Convocation.
- **Tuesday, August 4**
  - Study Break.
- **Friday, August 7**
  - 2009 Winter deferred examinations. (See also Saturday, August 8-Friday, August 21.)
  - Last day to drop Y & S courses and have them remain on the transcript with a grade of LW
  - After this date grades are recorded on transcripts whether course work is completed or not (with a 'W' assigned for incomplete work) and they are calculated into GPAs.
  - Note: See http://www.utsi.utoronto.ca/registrar/ for dates for courses on other campuses.
- **Saturday, August 8**
- **Friday, August 21**
  - Final examinations in Y & S courses.
  - 2009 Winter deferred examinations. (See also Tuesday, August 4-Friday, August 7.)
  - Last day to request a deferred examination in Y or S courses
- **Wednesday, August 26**
- **Friday, September 25**
  - Last day to pay the deferred examination fee for Y & S courses.
- **November TBA**

**Fall Convocation:** Check “Ceremony Dates” at www.convocation.utoronto.ca for the date of the UTSC ceremony.
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<thead>
<tr>
<th>Sessional Dates</th>
<th>2009 Fall Session</th>
<th>2010 Winter Session</th>
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<td><strong>Tuesday, August 18</strong></td>
<td>Last day to pay fees.</td>
<td>Last day to pay fees if enrolled in S courses only.</td>
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<td><strong>Monday, September 7</strong></td>
<td>Labour Day → University closed.</td>
<td>Classes begin in S and Y courses.</td>
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<td><strong>Thursday, September 10</strong></td>
<td>Classes begin in F and Y courses.</td>
<td>Final examinations in S and Y courses.</td>
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<td><strong>Wednesday, September 16</strong></td>
<td>Last day for students writing deferred examinations in December to adjust their current course load, if necessary.</td>
<td>Last day to drop Y courses without academic penalty and have them removed from the transcript.</td>
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<td><strong>Wednesday, September 23</strong></td>
<td>Last day to add F and Y courses.</td>
<td>Last day to add S courses.</td>
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<td><strong>Monday, October 12</strong></td>
<td>Thanksgiving Day → University closed.</td>
<td>Family Day holiday → University closed.</td>
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<td><strong>Wednesday, November 18</strong></td>
<td>Last day to drop F courses without academic penalty and have them removed from the transcript.</td>
<td>Last day to drop S courses without academic penalty and have them removed from the transcript.</td>
</tr>
<tr>
<td><strong>Wednesday, December 2</strong></td>
<td>Last day of classes in F courses. Last day for submission of term assignments in F courses.</td>
<td>Last day to drop Y courses without academic penalty and have them removed from the transcript.</td>
</tr>
<tr>
<td><strong>Thursday, December 3</strong></td>
<td>EXCEPT courses that normally meet on a Monday.</td>
<td>Last day to confirm intention to graduate at the Spring Convocation.</td>
</tr>
<tr>
<td><strong>Friday, December 4</strong></td>
<td>UTSC Monday: Last day of classes and last day for submission of term assignments in F courses that normally meet on a Monday.</td>
<td>Reading Week → No classes held.</td>
</tr>
<tr>
<td><strong>Sunday, December 6</strong></td>
<td>Final examinations in F courses.</td>
<td>Last day to pay the deferred examination fee for F courses.</td>
</tr>
<tr>
<td><strong>Sunday, December 6</strong></td>
<td>2009 Summer deferred examinations. (See also Monday, December 7- Friday, December 18.)</td>
<td>Last day to confirm intention to graduate at the Spring Convocation.</td>
</tr>
<tr>
<td><strong>Monday, December 7-</strong></td>
<td>January 3</td>
<td>Family Day holiday → University closed.</td>
</tr>
<tr>
<td><strong>Saturday, December 19-</strong></td>
<td>Sunday, January 3</td>
<td>Last day to drop Y courses without academic penalty and have them removed from the transcript.</td>
</tr>
<tr>
<td><strong>Sunday, January 3</strong></td>
<td>Sunday, January 10</td>
<td>Last day to confirm intention to graduate at the Spring Convocation.</td>
</tr>
<tr>
<td><strong>Monday, January 4</strong></td>
<td>Last day for students writing deferred examinations in April/May to adjust their current course load, if necessary.</td>
<td>Final examinations in S and Y courses.</td>
</tr>
<tr>
<td><strong>Friday, January 15</strong></td>
<td>Last day to add S courses.</td>
<td>Last day to drop S courses without academic penalty and have them removed from the transcript.</td>
</tr>
<tr>
<td><strong>Monday, February 15</strong></td>
<td>Last day to add S courses.</td>
<td>Last day to drop Y courses without academic penalty and have them removed from the transcript.</td>
</tr>
<tr>
<td></td>
<td>Last day to pay fees if enrolled in S courses only.</td>
<td>Last day to pay fees if enrolled in S courses only.</td>
</tr>
<tr>
<td></td>
<td>Classes begin in S courses and resume in Y courses.</td>
<td>Classes resume in S and Y courses.</td>
</tr>
<tr>
<td></td>
<td>Last day for students writing deferred examinations in April/May to adjust their current course load, if necessary.</td>
<td>Last day to drop S courses without academic penalty and have them removed from the transcript.</td>
</tr>
<tr>
<td></td>
<td>Last day to add S courses.</td>
<td>Last day to add S courses.</td>
</tr>
<tr>
<td></td>
<td>Last day of classes in S &amp; Y courses and last day for submission of term assignments in S &amp; Y courses EXCEPT courses that normally meet on a Friday.</td>
<td>Last day of classes in S &amp; Y courses and last day for submission of term assignments in S &amp; Y courses that normally meet on a Friday.</td>
</tr>
<tr>
<td></td>
<td>Good Friday → University closed.</td>
<td>UTSC Friday: Last day of classes and last day for submission of term assignments in S &amp; Y courses that normally meet on a Friday.</td>
</tr>
<tr>
<td></td>
<td>2009 Fall deferred examinations. (See also Monday, April 12-Saturday, May 1.)</td>
<td>2009 Fall deferred examinations. (See also Monday, April 12-Saturday, May 1.)</td>
</tr>
<tr>
<td></td>
<td>Last day to drop UTSC S &amp; Y courses and have them remain on the transcript with a grade of LWD indicating withdrawal without academic penalty.</td>
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</tr>
<tr>
<td></td>
<td>After this date grades are recorded on transcripts whether course work is completed or not (with a '0' assigned for incomplete work) and they are calculated into GPAs.</td>
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</tr>
<tr>
<td></td>
<td>Last day to request a deferred examination in S and Y courses.</td>
<td>Last day to request a deferred examination in S and Y courses.</td>
</tr>
<tr>
<td></td>
<td>2009 Fall deferred examinations. (See also Tuesday, April 6- Monday, April 11.)</td>
<td>2009 Fall deferred examinations. (See also Tuesday, April 6- Monday, April 11.)</td>
</tr>
<tr>
<td></td>
<td>Last day to pay the deferred examination fee for S &amp; Y courses.</td>
<td>Spring Convocation. Check &quot;Ceremony Dates&quot; at <a href="http://www.convocation.utoronto.ca">www.convocation.utoronto.ca</a> for the date of the UTSC ceremonies.</td>
</tr>
</tbody>
</table>
Officials of the University of Toronto

A list of officials of the University of Toronto can be found at: http://www.governingcouncil.utoronto.ca/AssetFactory.aspx?id=3694

Senior Administrators of the University of Toronto Scarborough

Principal (U of T Scarborough) & Vice-President (U of T)
Franco J. Vaccari, Ph.D.

Vice-Principal (Academic) & Dean
Ragnar-Olaf Buchweitz, Ph.D.

Interim Vice-Principal, Research
Mark Schmuckler, Ph.D.

Vice-Dean
John Scherk, B.Sc., M.Sc., Ph.D.

Vice-Dean, Graduate Education & Program Development
W.A. Gough, B.Sc., M.Sc., Ph.D.

Assistant Dean
Lesley Levis, B.A., M.I.St.

Chief Administrative Officer
Kim McLean, B.A., M.B.A.

Dean of Student Affairs
Tom Novak, B.Sc., M.Ed.

Chief Strategy Officer
Andrew Antuzzano, B.A., M.B.A.

Registrar & Director of Enrollment Services

Director of Human Resource Services
Kim Richard, B.Sc., M.Ed.

Chair, Department of Biological Sciences
Greg van Zyl, B.Sc., M.Sc., Ph.D.

Chair, Department of Computer & Mathematical Sciences
Vassos Hadzilacos, B.Sc., Ph.D.

Chair, Department of Humanities

Chair, Department of Management
Michael Kowalowski, S.B., M.Phil., Ph.D.

Chair, Department of Physical & Environmental Sciences
Donald Cormack, B.A.Sc., M.A.Sc., Ph.D.

Chair, Department of Psychology
John Basili, B.A., Ph.D.

Chair, Department of Social Sciences
Ted Ralph, B.A., M.Phil., Ph.D.

U of T Scarborough Departmental Structure

Department of Biological Sciences:
Biology
Industrial Microbiology
Pararmedicine

Department of Computer & Mathematical Sciences:
Computer Science
Mathematics
Statistics

Department of Humanities:
African Studies
Classical Studies
English
Global Asia Studies
History
Humanities
Intersections, Encounters in the Humanities
Journalism
Languages & Linguistics
Media Studies
New Media Studies
Philosophy
Religion
Visual & Performing Arts
Women's & Gender Studies

Department of Management:
Economics for Management Studies
Management

Department of Physical & Environmental Sciences:
Astronomy
Chemistry
Environmental Science
Environmental Science & Technology
Physical Sciences
Physics

Department of Psychology:
Neuroscience
Psychology

Department of Social Sciences:
Anthropology
City Studies
Dispersed & Transnational Studies
Geography
Health Studies
International Development Studies
International Studies
Political Science
Sociology
The University of Toronto Scarborough: Looking Back, Moving Forward

The University of Toronto (U of T), founded in 1827, has degree-granting authority from the Province of Ontario. It is a member of the Association of Universities and Colleges of Canada, the Association of Commonwealth Universities, and one of only two Canadian members of the Association of American Universities. U of T Scarborough, founded in 1964, is one of three campuses of U of T. St. George, University of Toronto Mississauga (UTM) are the others. U of T Scarborough has been a separate division of the University of Toronto for more than 35 years.

When the University of Toronto Scarborough was founded in 1964, the first full-time students enrolled into temporary quarters on the St. George campus. When they moved to Scarborough, the campus was home to just 10 faculty members and 500 students. Campus facilities have continued to expand since inception. In 1973 the Student Village residence complex and the Bladen Building, housing classrooms, offices and the athletic centre, were opened. The 1980s saw the opening of the Vincent W. Bladen Library and a large addition to the original Student Village. In 1990, the West Village residence complex opened, followed by the N'Sheenmic Child Care Centre and the Leighs Lee Browne Studio Theatre.

The growth and expansion of scholarship and research continues at a rapid pace. We now have more than 16,000 students and almost 600 faculty and staff—with close to half of this growth happening in recent years. The Academic Resource Centre, Joan Foley Hall, an apartment style residence, and the Doris McCarthy Gallery opened in 2003. The following year, the Management Building and the Student Centre were opened. In 2005, the Arts and Administration building was opened. The new Science Building was officially opened in October, 2008.

In 2002, in recognition of the tri-campus nature of the University, the Scarborough Principal became a Vice President of the University as well. Since the summer of 2003, U of T Scarborough has operated on a trimester system, with three equal sessions each year. This system enhances opportunities for year-round study. Beginning with three academic divisions (Humanities, Sciences and Social Sciences), the academic portfolio has continued to evolve. In 2004 the term “Division” was replaced by “Department” in keeping with the naming practice at the University of Toronto. In 2007, two new Departments were formed: the Department of Biological Sciences and the Department of Psychology. U of T Scarborough currently has seven departments - Biological Sciences, Computer and Mathematical Sciences, Humanities, Management, Physical and Environmental Sciences, Psychology and Social Sciences.

The campus offers the University’s only formal co-operative programs. These are enrichment programs designed to integrate related practical experiences with academic studies. There are five Joint Programs which are offered in collaboration with Centennial College - Journalism, New Media Studies, Paramedicine, Environmental Science and Technology, and Industrial Microbiology. The Concurrent Teacher Education Program (CTEP) was introduced in 2007. This program draws on the expertise of OISE/UT, U of T Scarborough and six other academic partners, and integrates the study of education across a five-year period. At the end of their course of study at U of T Scarborough, graduates from CTEP will have earned a Bachelor’s degree in Arts or Science and a Bachelor of Education degree.

Writing at U of T Scarborough

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.

It is the aim of the University of Toronto Scarborough 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 information 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 which are particular to their specific areas of study, but all are expected to help their students generate ideas, analyse their sources, and synthesize and interpret information in coherent forms of written expression.

Some disciplines have identified writing-intensive courses which aim expressly at enhancing a student’s writing ability. Others have adopted interactive ways of assisting students to develop and improve their writing skills. Specialized courses in academic writing are available to non-native speakers of English. The U of T Scarborough Writing Centre is available to every student. 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.
Academic Resources and Student Services

U of T Scarborough Library

Library Circulation & Lending
Library Information Line
Library Reference Desk
Library Research & Instruction
TCard Office

416-287-7482
416-287-7500
416-287-7381
416-287-7499 or 416-287-5665
416-287-7560

Website: http://main.library.utoronto.ca/uts/index.shtml

Library Hours

Hours vary during the term. The Library offers 24-hour service during midterms and exam periods. Please check the website or phone 416-287-7560.

The Library's vast array of resources in electronic, print and other formats (maps, slides, CDs, DVDs, films, etc.) support U of T Scarborough’s curricular and research needs. Many course items, both electronic and print, are available through course reserves. Library materials held at other U of T libraries are just a click away in the Library catalogue.

The expert team of Librarians assists students with their assignments and research. In particular, students may meet with a Librarian to receive personalized research assistance. Classroom and group instruction are also available by appointment.

Students are invited to use the library for research and study purposes. A variety of study spaces is available to suit your requirements: quiet, semiquiet, computer, group study rooms, ultra quiet study space and media viewing facilities. The Library’s San Infonetics Commons features over 100 networked workstations providing access to electronic collections held by the University of Toronto Libraries.

The TCard Office, located in the Library, issues TCards for faculty and staff, re-issues student TCards, and handles the cash-to-card transactions.

The Centre for Teaching and Learning

Website: http://www.uts.toronto.utoronto.ca/index.html

The Centre for teaching and Learning works with faculty, students, teaching assistants and staff to promote, support and enhance teaching and learning at U of T Scarborough.

For students, CTL addresses a diversity of student needs by supporting the student learning process. This includes instruction in writing (The Writing Centre), Information Literacy & Research Skills Instruction, Presentation Skills Instruction, Quantitative Analysis assistance (mathematics, statistics and data interpretation needs) via the Math & Statistics Learning Centre and a wide array of English Language Development programs to strengthen oral and written communication skills. Individual appointments are supplemented with drop-in help sessions, editing clinics, group seminars, workshops and online resources. Summer Learning Institutes assist newly admitted students to make a successful academic transition to U of T Scarborough.

CTL assists faculty with all aspects of course design and implementation, and can include in-course presentations. Core expertise is available for help with (1) Teaching Best practices, (2) Teaching Assistant Training, (3) Assignment design/implementation/marketing strategies in oral and written communication, data analysis, research and information literacy and personal and professional development as a teacher. CTL also supports innovative faculty projects that facilitate improved learning outcomes. Services include faculty orientation programs, portfolio construction assistance, teaching consultations, hard-time lecture series, teaching grants and awards, publications on teaching and learning, and\n
Information & Instructional Technology Services

IITS Faculty Staff Help Desk: 416-287-7618
IITS Student Support Office: 416-287-7391

Website: http://iits.uts.toronto.utoronto.ca

IITS is responsible for information technology and audio-visual services at U of T Scarborough. IITS designs and maintains the campus computer network and core IT services, provides campus-wide Help Desk support, advises on customized IT solutions, and supports audio-visual equipment and services in electronic classrooms and videoconferencing facilities.
For students IITS provides wireless network connectivity and supports network service available to student residents on campus. IITS maintains over 500 public workstations in 10 computing labs and in Informatics Commons. Over 100 computer workstations are available 24/7. Users can also find computing kiosks dispersed throughout the campus for an easy access to information.

Office of Student Affairs

Student Affairs supports student success. We strive to cultivate the intellectual and personal development of students within a community based on principles of mutual respect and inclusion.

- Academic Advising & Career Centre
- AccessAbility Services
- Health and Wellness Centre
- Dept. of Student Life & International Student Centre
- Physical Education and Athletics
- Office of Student Affairs
- Student Housing and Residence Life

The Office of Student Affairs provides administrative oversight and accountability to all departments within the division. It upholds the values of the community held mission statement and advises and seeks advice from student societies and the Council on Student Services (CSS) and advocates on issues of student concern to the Vice-President & Principal. The office offers support for a variety of initiatives, assists students in academic or personal difficulty, offers guidance to students planning events and responds to student queries and referrals. The Office also provides specialized IT support to departments and some student initiatives. The Dean of Student Affairs is a Notary Public and provides these services free of charge to members of the UTSC community. The Dean also chairs the Academic Student Travel & Conference Fund. The Dean of Student Affairs is a member of College Council, Planning & Budget and Academic Committee. The Dean is also a member of the Principal’s Executive Group.

Contact Information:
Office of Student Affairs
Student Centre, SL-157
Phone: 416-284-4760
Email: staff@utsc.utoronto.ca
Website: www.utsc.utoronto.ca/staff

Department of Student Life

The Department of Student Life strives to enhance the student experience at U of T Scarborough and provide our students with meaningful opportunities for development within an anti-oppressive framework. Our programs aim to provide students with the opportunity to engage in expressive dialogue, challenge assumptions about themselves and the world around them, connect in a meaningful way with the surrounding community and engage in meaningful self-reflection.

The Department of Student Life engages in the holistic and continual development of students. Our Peer Education Model aims to empower students to take control of their own development, grow as leaders, and leave behind a legacy in the form of new leaders. Our programming aims to engage and support students from the moment they arrive on campus. First year will bring the welcome of Orientation, the guidance and support of the Student Mentorship Program, and the exploration that comes with the Passport Program. Subsequent years offer the continued opportunity to engage in the over 100 annual activities connected to the Leadership Development Program, while programs such as Outreach and the Volunteer Network Program provide students with consistent opportunities to connect with and contribute to their community.

The Department of Student Life also provides official recognition and support to over 140 student organizations, and serves as the primary liaison between student organizations and the university. The Department provides the campus’ student leaders with professional advice in the areas of organizational development, project management, event planning, budgeting and sponsorship, risk assessment, succession planning and more. The Department also administers the campus’ major awards and recognition programs, including the U of T Scarborough Letter Awards and the Campus Life Awards.

For more information on the Department of Student Life, please visit our website at: www.utsc.utoronto.ca/studentlife

Contact Information:
Department of Student Life
Student Centre, SL-157
Phone: 416-284-4760
Email: studentlife@utsc.utoronto.ca
Website: www.utsc.utoronto.ca/studentlife
International Student Centre @ U of T Scarborough

The International Student Centre (ISC), a division of Student Affairs & Services, serves and supports international and internationally-minded students at U of T Scarborough. The ISC @ U of T Scarborough is an inclusive and positive space where students of all backgrounds can find community and benefit from information, programs and services.

We offer programs and services for students in three areas:
- **International Students & Newcomers to Canada**: Orientation activities, Buddy Program, English Conversation Program, educational and social/cultural events, international student advising, referrals to university and community services.
- **Study Abroad**: Find out about opportunities to study in another country and earn credits towards your degree! Attend an information session and find resources about Summer Abroad, Student Exchange and Study Elsewhere programs.
- **Diversity Training & Workshops**: Explore issues of diversity, identity and equity. Learn more about yourself and about your community.

Our programs and services are open to all students.

International and internationally-minded students can register with the ISC by visiting our website: www.utsc.utoronto.ca/isc.

Contact Information:
ISC Centre, SL151
Tel: 416-287-7518
Email: isc@utsc.utoronto.ca
Web: www.utsc.utoronto.ca

Academic Advising & Career Centre

The Academic Advising & Career Centre provides a unique comprehensive and integrated set of services to U of T Scarborough students. We help students become informed decision-makers and independent learners, to be motivated and goal-oriented – while maintaining a maximum degree of flexibility in planning towards a range of academic and career goals. Our services include:
- Workshops and seminars on academic issues, learning skills, career planning and looking for employment.
- Individual appointments with professional career counselors and academic advisors.
- Front line resource specialists who can provide information and referral.
- Career Centre Online: exclusive electronic job postings for U of T students.
- Special events, such as a Professional and Graduate Schools Fair, a Summer Job Fair and a Volunteer and Internship Fair.
- An interactive website: www.utsc.utoronto.ca/isc.

Come see us in AC 215 or phone 416-287-7561.

AccessAbility Services

University of Toronto’s Statement of Commitment Regarding Persons with a Disability

It is the University’s goal to create a community that is inclusive of all persons and treats all members of the community in an equitable manner. In creating such a community, the University aims to foster a climate of understanding and mutual respect for the dignity and worth of all persons.

In working toward this goal, the University will strive to provide support for, and facilitate the accommodation of individuals with disabilities so that all may share the same level of access to opportunities, participate in the full range of activities that the University offers, and achieve their full potential as members of the University community.

The University will work to eliminate or minimize the adverse effects of barriers, including physical, environmental, attitudinal, communications and technological barriers, which may prevent the full participation of individuals with disabilities in the University community.

The University will provide the members of its community with opportunities for education and access to information regarding disability and the University’s policies on disability. At the same time, the University will endeavour to protect the individuals’ privacy, confidentiality and autonomy.

The University reaffirms that all students and employees with disabilities may require reasonable accommodations to enable them to do so. The University is, as always, committed to preserving academic freedom and its high level of academic standards.

The achievement of the University’s goal depends on the participation of each and every member of the University community, including students, faculty, staff and alumni, as well as their respective representative organizations. Each of these parties has a role in creating an equitable and inclusive environment, as well as in the accommodation process and the identification, removal, and/or reduction of barriers. The collaborative relationship among the members of the University community is based upon a shared desire for an open, supportive learning and working environment, and a shared respect for individual rights and dignity.

In working toward its goal under this Statement, the University is committed to acting consistently and in keeping with its own policies and existing legislation related to disability.

Responsibility of Students Who Have Disabilities

Students who require accommodations for their academic programs and related activities at the University have the responsibility to disclose their needs in a timely manner to facilitate the implementation of support and services. It is vitally important that students discuss their needs as early as possible with the Service in order to put accommodations in place. Students must present relevant and up-to-date documentation, as outlined on the website, from an appropriate health care professional.
AccessAbility Services

Services are provided to students who have a mental health disability, learning disability, attention deficit disorder, acquired brain injury, physical, sensory (hearing/vision), or chronic health condition (e.g., epilepsy, cancer, bowel disease) as well as students who have temporary disabilities such as a broken dominant arm.

Students who register and utilize the services will be identified on their transcript as receiving accommodations. Information disclosed to the service is confidential and is disclosed with the student’s permission.

The service provides a wide range of support, including:
- learning disability assessments
- assistive technology assessments and equipment
- learning strategy support
- test and examination accommodations
- note-taking services
- sign language interpreters; computerized note-taking
- advice and information on disability issues
- liaison to University and off-campus agencies

Voice/TTY: 416-287-7560
Room: SW 302
Email: ability@utsc.utoronto.ca
Website: www.utsc.utoronto.ca/ability

Financial Aid & Awards

The Financial Aid & Awards office provides programs and services to assist students in financing their education. Programs include OSAP and other provincial loan programs, bursaries and emergency loan support, Work Study, scholarships and awards. The staff is available to help students make sound financial decisions through personal or group counselling opportunities. The Financial Aid & Awards office is located in the Registrar’s Office (Room AA 142). To book an appointment, please use eService on the Registrar’s Office webpage at www.utsc.utoronto.ca/registrar. For more information on financial aid and awards, visit our website at www.utsc.utoronto.ca/financialaid.

Health & Wellness Centre

Hours: Monday - Friday 9:00 a.m. - 4:45 p.m.
Room #: SL 270 (Student Centre)
Telephone #: 416-287-7065
E-mail: health-services@utsc.utoronto.ca
Website: http://www.utsc.utoronto.ca/wellness

We are your convenient and confidential medical clinic on campus - much like your family doctor’s office.

- Health Care: It is provided daily by physicians and nurses for the treatment of minor illnesses, first aid, pregnancy tests, annual check-ups, birth control prescriptions and sales, STI testing including HIV/AIDS, immunizations, and over-the-counter medications for colds and headaches. Appointments are recommended and walk-ins are accommodated. U of T Scarborough international students may pick up their UHIP cards here.

- Personal Counselling: Our staff includes a social worker, a psychotherapist, a psychologist, a psychiatrist, and a physicians-counsellor. Each of these counsellors is trained to help with family problems, relationships, crisis counselling, anxiety, depression, stress management, sexuality, bereavement, and eating disorders.

- Health and Wellness: Aimed at supporting healthy lifestyle choices, it is an integral part of the services, and the staff often collaborates with other student services such as Physical Education & Athletics to further enhance the quality of our outreach programs.

N’sheemaen: Child Care Centre

Hours: Monday - Friday 7:30 a.m. - 6:00 p.m.

Your child can be as close as your next lecture hall at N’sheemaen (pronounced Nuh-shem-mah) located on the U of T Scarborough grounds. The Centre was constructed with children in mind. Its large, low level windows invite the natural environment inside and through which the children watch for birds, squirrels, raccoons and deer. Child size furniture, equipment, sinks and tables enable children to develop independence and self-esteem.

The centre provides care and education for 54 children from birth to five years of age. Every day, children learn through play in a professional, nurturing, stimulating and safe environment. Children develop co-operative, empathetic, and negotiating skills and strategies to thrive today, and throughout their lifetime.

Meals and snacks are provided by an on site cook, with attention to how they taste, look, and how nutritionally sound they are for growing and developing children. Allergies and food restrictions are accommodated.

This non-profit Centre is governed by a Board of Directors made up of parents and U of T Scarborough appointees.

Assistance with fees is available through a bursary for U of T Scarborough students, as well as a child care subsidy from the City of Toronto.

For more information about the Centre, or to arrange a tour, please contact the Director, Joanne Quinn at 416-287-7624.
E-mail: childcare@utsc.utoronto.ca
Website: http://www.utsc.utoronto.ca/childcare
Office of the University Ombudsperson

As part of the University’s commitment to ensuring that the rights of its individual members are protected, the University Ombudsperson investigates complaints from any member of the University not handled through regular University channels. The Ombudsperson offers advice and assistance and can recommend changes in academic or administrative procedures where this seems justified. In handling a complaint, the Ombudsperson has access to all relevant files and information and to all appropriate University officials. The Ombudsperson handles all matters in strict confidence, unless the individual involved approves otherwise. The Ombudsperson is independent of all administrative structures of the University and is accountable only to Governing Council.

The services of the office are available by appointment at all three U of T campuses (for an appointment, please telephone or e-mail us). For additional information, please visit our website at: www.utoronto.ca/ombudsperson.

McMurrich Building, 12 Queen’s Park Crescent West, Room 102, Toronto M5S 1S8
Telephone: 416-978-4874
E-mail: ombuds.person@utoronto.ca

Physical Education & Athletics – Recreation Centre

Hours: Monday - Friday - 7:45 a.m. - 10:30 p.m.
Saturday - Sunday - 7:45 a.m. - 4:00 p.m.
(Hours are adjusted during exam periods, Christmas holidays & summer months.)
Main Office: R247
General Information #: 416-287-2099
E-mail: physed@atm.utoronto.ca
Website: http://www.utoronto.ca/phys-ed
Our mission is: “We strive to create a respectful and inclusive environment that promotes opportunity and overall well-being through physical activity”. The focus of the Department is to encourage participation in a broad spectrum of programs and activities. We offer various combinations and levels of intramural sports, inter-house leagues, tournaments, recreational play, instruction, and special events to promote skill development, leadership, social interaction and enjoyment for an active, healthy lifestyle.

Facilities:
Co-ed fitness/weight training facility “THE KEY” and the Cardio Theatre space, Cycle-fit Room; The Palladium Gymnasium – a double gym for basketball, volleyball, badminton, ball hockey, indoor soccer, indoor cricket, etc.; Teaching Studio – for instructional and fitness classes; Athletics Lounge — study space, table tennis; seven air-conditioned North American squash courts; Golf “practice tee”; Vanier Baseline Baseball Diamond, two multi-purpose outdoor playing fields and eleven outdoor tennis courts in the valley; locker/shower areas — including men’s and women’s sauna; athletic service counter offering program and membership information as well as playing equipment rentals and various supplies.

University of Toronto Scarborough Community Police

A Special Constable Service

Office Location: SW304 (Science Wing)
Emergency: 416-287-7333
General: 416-287-7398
E-mail: community.police@utsc.utoronto.ca
Website: www.utsc.utoronto.ca/communitypolice
UTSC Patrol (formerly Walk Safe): 416-287-7022

U of T Scarborough Community Police are dispatched by the Communications Centre on the St. George campus. Please specify that you are calling from U of T Scarborough and be specific about your location.

The members of the U of T Community Police are Special Constables. They are sworn peace officers who are on duty 24 hours a day, 365 days a year to serve the University community.

The U of T Community Police work in partnership with the University community to provide a safe and secure environment in which to carry out daily activities.

The U of T Scarborough Community Police is the initial response agency for all emergencies and crises occurring on the Scarborough campus and should be notified immediately of any situation that jeopardizes the safety of any community member, or that threatens to disrupt the operations of the University.

The U of T Scarborough Community Police should be informed of ALL matters involving threats to personal safety and security, violations of federal, provincial or municipal laws or University policies.

Examples of these would include:
- attempts to injure others or self
- medical emergencies
- alcohol related emergencies
- threats
- assaults
- noise complaints
- damage to property
- theft of property
• possession of drugs or weapons
• any other situation that looks suspicious or causes concern.

The UTSC Police and the Lone Worker program as well as issuing Crime Alerts and Community Information Bulletins and providing crime prevention and personal safety education and consultation at U of T Scarborough.

The UTSC Community Police can also provide pay duty officers to address security concerns for all special functions.

Registrar’s Office
The Registrar’s Office is the place to visit for help with registration, to request letters or forms which confirm your status at the university and to get answers for many of your general questions about academic regulations, degree requirements and re-enrollment for those students who are returning after suspension or a 12-month absence. We also produce student cards (TCard) for new students. Some of our services, such as late withdrawal, deferred examinations, petition submission, exam copy and clerical check requests, can be requested online using eService (from our website). Our office is located in Room AA142 of the Arts and Administrative building. The telephone number is 416-287-7901. For office hours see our website.

• Our website at: http://www.utsc.utoronto.ca/registrar
• Interactive FAQ service at: http://www.utsc.utoronto.ca/askus
• Student Web Service at: http://www.roi.utoronto.ca
• eService at: http://www.utsc.utoronto.ca/eService

Student Residences
The University of Toronto Scarborough residence system offers you a comfortable home away from home. Our mission is to provide residence students with a "living and learning" environment that supports the academic mission of the university and offers students a variety of opportunities to enhance their university experience both inside and outside the classroom.

Our Residence Life program is designed to assist students with the transition to university and to support their success throughout their time on campus. We strive to foster a learning community committed to a high standard of mutual respect and understanding that celebrates diversity.

Our community is supported by Residence Advisors, senior students living in residence, who serve as a community support network that strives to make the residence environment enjoyable, relaxing, and conducive to learning. The Student Residence Council is also a group of student leaders in residence who organize events and services for residents.

Our fully furnished townhouses and apartments with well-equipped kitchens, are located minutes from the academic buildings and the Residence Centre (RC), our large, furnished common area. There are 114 self-contained townhouses and 55 self-contained apartments, accommodating 767 students with four to six students in each house and four students in each apartment suite. Single and shared bedrooms are available. Houses and apartments are assigned as either all female or all male for new students. Common study rooms are available throughout the residences. Five houses and one apartment are specially designed as barrier free accommodation for students with Accessibility requirements.

Accommodation is available for full-time first-year students who are offered admission by July 1, and who respond to all deadlines and meet all deposit requirements. Part-time students and those who receive late offers are advised to contact the Housing Office for further information although there is no guarantee that they will receive accommodation on campus.

Accommodation is available for fall, winter and summer. We encourage you to come and visit us during the summer to tour the residences and see a townhouse or apartment.

For more information contact:
Student Housing and Residence Life
University of Toronto Scarborough
1260 Military Trail
Toronto, ON, M1C 1A4
Telephone: 416-287-7355
Fax: 416-287-7667
E-mail: residences-office@utsc.utoronto.ca
Web site: http://www.utsc.utoronto.ca/residences

Sexual Harassment Office
The University’s Sexual Harassment Policy covers harassment based on sex and sexual orientation and applies to students, staff and faculty members. The University of Toronto does not tolerate any form of sexual harassment and is actively endeavouring to provide an environment free of it. All forms of sexual harassment, from verbal abuse to unwanted touching to homophobic insult are covered by the University's policy. The Sexual Harassment Officer provides education to the community, administers the formal complaint procedure and offers non-partisan advice and counsel to those involved in the complaint process. Contacting the Sexual Harassment Officer is not a commitment to filing a complaint; people can contact the office on an anonymous basis simply for advice.

All complaints and requests for information are kept completely confidential unless the individuals involved approve otherwise. Members of the University of Toronto Scarborough may arrange an appointment at U of T Scarborough with the Sexual Harassment Officer or may go to the St. George campus, whichever is more convenient. For an appointment, information, to arrange educational or to file a complaint, contact the Sexual Harassment Office, University of Toronto, 40 Sussex Avenue (3rd floor), Toronto, Ontario, M5S 1J7 (telephone 416-978-3908). Further information is available at www.utoronto.ca/sho.

For information about online harassment go to www.utoronto.ca/sho.
Degrees

University of Toronto Scarborough students may earn an Honours Bachelor of Arts, an Honours Bachelor of Science or a Bachelor of Business Administration degree after completing the appropriate requirements listed below. In doing so, students are expected to adhere to the rules and regulations outlined in this Calendar. (Students who first registered at U of T Scarborough prior to the 2004 Summer Session may elect to receive a B.A. or a B.Sc. degree after having completed the requirements for a three-year (60-credit) degree.)

Degrees are conferred at university convocations, held twice annually: the Spring Convocation held in June and the Fall Convocation held in November. Students who have confirmed their intention to graduate will be mailed complete information about the time and arrangements in March for the June Convocation and in October for the Fall Convocation.

Students in their graduating year who intend to take part in the next Convocation must notify the Registrar's Office of their intention either through ROSI or on a confirmation of graduation form by the deadline listed in the Sessional Dates section of this Calendar. To determine if you have met degree and/or program requirements, login to Degree Navigator at www.rosi.utoronto.ca. For more information about Degree Navigator see the Student Web Service section of this Calendar.

Degree Requirements

Note: Changes to the degree requirements below are under consideration. If approved they will apply to students who first register at the University of Toronto Scarborough in the 2010 Summer Session or in a subsequent session.

Honours Degree

To qualify for an Honours degree, students must:

1. Pass at least twenty full credits.
2. Complete: (a) a Specialist Program, or (b) two Major Programs, or (c) two Minor Programs and a Major Program. Combinations of programs used to meet this requirement must include at least twelve different full credits.

Note: Students who first registered at the University of Toronto Scarborough in a session prior to the 2009 Summer Session have the option also of completing three minor programs.
3. Earn a cumulative grade point average of at least 1.60.

Note: Only Programs offered by the University of Toronto Scarborough may be used to fulfill degree requirements.

B.A. and B.Sc. Degrees

The type of Honours degree students receive is determined by the Program(s) completed. See the program list in the Guide to Programs and Courses Offered for the type of degree towards which each Program leads. Students must monitor their own progress to degree completion.

- In order to receive a B.Sc., students must complete one of the following: One specialist, one major or two minor programs in the sciences.
- In order to receive a B.A., students must complete one of the following: One specialist, one major or two minor programs in the arts.
- Students who fulfill more than one requirement may select which degree they will receive.

Bachelor of Business Administration Degree

1. Pass at least twenty full credits.
2. Complete either (a) the Specialist Program in Economics for Management Studies, or (b) one of the Specialist Programs in Management listed in the Management section of this Calendar.
3. Earn a cumulative grade point average of at least 1.60.

Graduation with High Distinction and with Distinction

University of Toronto Scarborough students who have completed at least ten full credits while registered at University of Toronto Scarborough, at the University of Toronto's Faculty of Arts and Science or at the University of Toronto Mississauga will graduate with high distinction if their cumulative grade point average is 3.50 or better and will graduate with distinction if their cumulative grade point average is between 3.20 and 3.49. Students who have completed fewer than ten University of Toronto Scarborough, Faculty of Arts & Science or University of Toronto Mississauga credits who have a cumulative grade point average of 3.20 or better will be considered on an individual basis.

Transfer Students

Students transferring to the University of Toronto Scarborough are required to complete at least half of their credits and half of their Program requirements as University of Toronto Scarborough students. Students transferring from other divisions of the University of Toronto are exempt from this requirement.

Three-Year Degree

U of T Scarborough has discontinued the three year degree. Students registered at U of T Scarborough prior to the 2004 Summer Session may still choose to complete a three-year degree. For three-year degree requirements, see the 2008/09 Calendar.
Upgrading Three-Year Degrees
For information on upgrading three-year degrees, see the 2008/09 Calendar.

Students who first registered at U of T Scarborough before the 1989 Summer Session
Students who first registered at the University of Toronto Scarborough before the 1989 Summer Session may, if they wish, complete the degree requirements outlined in the 1988-89 Calendar. Students who first registered before the 1980 Summer Session may, if they wish, complete the degree requirements outlined in the 1979-80 Calendar. For these students, the type of degree is determined by the number of science credits completed.

"Second Degree" Requirements
Students beginning a second degree are normally exempted from first year of the degree requirements by being granted five (5.0) credits, regardless of the number of previous degrees. Students who hold a B.A., B.B.A. or B.Sc. 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 B. A. degree may only complete a B.B.A. or B.Sc. degree). Application for admission to a second degree Program is made through the Assistant Registrar-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.

Certificate Program in Business
Students in this program must complete the following in order to qualify for the Certificate in Business:
1. Earn 6.0 full credits in Management and Economics for Management Studies, including ECMA13H, ECMA05H, MGTA03H & MGTA04H.
2. Earn a cumulative grade point average of at least 2.00.

Students in their graduating session who intend to take part in the next Convocation must notify the Registrar's Office of their intention either through ROSI or on a confirmation of graduation form by the deadline listed in the Sessional Dates section of this Calendar.

University of Toronto Scarborough certificate students will graduate with honours if their cumulative grade point average is 3.20 or better.

Non-Degree Students
"Non-degree students" are students registered in degree courses at the University of Toronto Scarborough:
• 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.

Programs of Study
Programs are groupings of courses in one or more disciplines. Degree students must select and register in a Program or Programs following the session in which they receive their fourth credit. (Note: Some Programs have limited enrolment. See the Program descriptions for admission requirements or speak to the Program Supervisor.) A list of Programs may be found in the Guide to Programs & Courses Offered section of this Calendar. Only programs offered by the University of Toronto Scarborough may be used to meet the degree requirements.

Note: Successful completion of a program does not in itself ensure successful completion of the degree requirements. See the Degrees section of this Calendar.

Specialist Programs
1. Specialist Programs which consist of at least nine full credits are designed to provide depth and intensity of study within a limited area as defined as a discipline, a group of disciplines, or a particular theme or area of study.

Major Programs
2. Major Programs which normally consist of six to eight full credits 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.

Minor Programs
3. Minor Programs which consist of four full credits, including at least one full-credit at the C- or D-level are designed to provide study in a specific area for students-desiring wide-ranging but coherent Programs of study in different areas of the curriculum.
Approved Individual Programs
4. Students may propose individual Programs of study, other than those described in this Calendar. Such proposals will be considered favorably only from students with cumulative grade point averages of 3.5 or greater. To be approved, Individual Programs should specify four full credits for a Minor Program, six to eight full credits for a Major Program and ten to fourteen full credits for a Specialist Program. The courses should all be offered at U of T Scarborough and should form a logical program. The student should offer a rationale for the proposal. Proposals should be made to the Vice-Dean and must be submitted at least eight months prior to the session in which the student expects to graduate.

Co-operative Programs
5. Co-operative programs are enrichment Programs designed to integrate related, practical experience with regular University studies. All Co-operative Programs are either Specialist or Major Programs and may be taken only as part of a four-year degree. Major Co-operative Programs must be combined with another Major Program. Academic credits associated with the successful completion of work-term requirements are additional to the 20.0 normally required for a degree. For this reason, some Co-operative Programs may take up to five years to complete.

Joint Programs
6. Joint programs are offered in collaboration with Centennial College. All Joint Programs are either Specialist or Major Programs and may be taken only as part of an Honours degree. Joint Major Programs must be combined with another Major Program or two Minor Programs. In most cases, students also have the opportunity to qualify for a diploma or certificate from Centennial College, which may require one additional academic session. See specific program descriptions for more details.

Course selection and registration for Programs of study
1. Students are responsible for ensuring that 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.
2. While students with fewer than 4.0 credits are not required to select a Program, they should, when selecting their courses, consider carefully the requirements of any Programs they may later choose to follow. Supervisors, instructors in A-level courses and academic advisors may be consulted for assistance.
3. Students who have registered in a Program should consult annually with the supervisors of their Programs to ensure that their course selection will meet Program requirements. Students must register in their Programs following the session in which they attain their fourth full credit.

Note: Successful completion of a program does not in itself ensure successful completion of the degree requirements. See the Degrees section of this Calendar.

Program Transfers
Students who wish to transfer from one Program to another after classes have started should discuss the proposed transfer with the supervisor of the new Program and notify the Registrar's Office of the change through ROSI.

Certification of completion of Programs
Completion of Programs is certified when the degree is conferred. Certification is given only for University of Toronto Scarborough 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. When Program requirements are changed, students may elect to satisfy the requirements in effect when the student first completed courses or U of T Scarborough or subsequent requirements if the student finds them more favourable. However, U of T Scarborough reserves the right to require substitution for courses which are no longer offered.

Regulations concerning Programs of study
1. Students may register in no more than three Programs at any one time (including no more than two Majors and/or Specialists) and may receive certification of completion of no more than three Programs.
2. Students may register in no more than one limited enrolment Specialist Program at any one time.
3. Students may register in no more than one Co-operative Program at any one time.
4. Where a student completes the requirements of a Minor Program and subsequently chooses to complete a Major or Specialist Program in the same area the student may use the courses already accredited to the Minor Program to fulfill the requirements of the Major or Specialist Program. Upon successful completion of the additional requirements, any previous certification of the Minor Program will be superseded on the student's transcript by certification of the Major or Specialist Program.
5. Where a student completes the requirements of a Major Program and subsequently chooses to complete a Specialist Program in the same area, the student may use the courses already accredited to the Major Program to fulfill the requirements of the Specialist Program. Upon successful completion of the additional requirements, any previous certification of the Major Program will be superseded on the student's transcript by certification of the Specialist Program.
6. Supervisors have the authority to deal with special circumstances concerning Program requirements. They may:
   • accredit 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 should ask their supervisor to record them on a Program exceptions form.
Co-operative Programs

7. Students should note that certain Programs will require them to take some of their courses on the St. George Campus. However, only University of Toronto Scarborough Programs may be used to meet degree requirements.
8. Students intending to enroll in any course on another campus which they intend counting towards their Program should consult with their Program Supervisor first.
9. Students transferring from another institution to the University of Toronto Scarborough will be required to complete at least half of their credits and half of their Program requirements as University of Toronto Scarborough students. Students transferring from other divisions of the University of Toronto are exempt from this requirement.

Registration in Programs which have been Withdrawn
Normally students will not be allowed to register in Programs that have been withdrawn. However, where the required courses for the Programs are still offered or suitable substitutions are available, students who have completed at least four full credits at the end of the session in which the Program is withdrawn may still apply for admission to the Program. Such admission will be contingent on a written agreement with the Chair of the relevant Department (or delegate) stipulating the requirements to be met and a time limit for the student’s completion of the Program. Students should note that the University is not obliged to make such arrangements.

Students currently registered in Programs that have been withdrawn will be able to complete their Programs within a specified time frame. U of T Scarborough 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 Supervisor of Studies or the Chair of the Department in which the Program was offered.

Co-operative Programs

General Information
Co-operative Programs are enrichment programs designed to integrate related practical experience with academic studies. All co-op programs are either Specialist or Major Programs and may be taken only as part of a four-year degree. Major co-op programs must be combined with another major program. Academic credits associated with the successful completion of work-term requirements are additional to the 2.0 normally 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. For a listing of co-op programs, the academic supervisors, and the sponsoring academic Department, see the Guide to Programs & Courses section of this Calendar.

Admission to Co-op Programs
In most cases, students may apply to enter co-op programs either directly from secondary school or after their first year of university studies.

Prospective Applicants: For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T Faculty or from another post-secondary institution, applicants must indicate the special code for the program on the Application for Admission to an Ontario University. See the Admissions section of this Calendar for deadlines.

Once U of T is notified of the application, applicants are given information about documents required to support it. Co-op programs require a Supplementary Application available at the Admissions and Student Recruitment website: www.utsn.utoronto.ca/admissions. Enrollment in co-op programs is limited. Admission is granted on the basis of applicants’ academic performance and their interest, experience and potential ability. The Supplementary Application will indicate what information is required in addition to the academic record and it may include a statement of interest, information about volunteer and work experience and extracurricular activities.

In some cases, an interview may be conducted, either in person or by telephone.

Current U of T Scarborough Students: For the minimum qualifications for consideration for entry into Co-op Programs following First Year, see the individual co-op program entries elsewhere in this Calendar. Application procedures can be found at the Registrar’s Office website: www.utsn.utoronto.ca/subject/post

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 the additional costs associated with the administration of work terms and are calculated in accordance with Ministry of Education and University of Toronto policies. However, no tuition fees are charged when registering for the work-term credit courses, nor are there any additional fees associated with the required non-credit co-op work term preparation course. If a student leaves the program for any reason, co-op fees paid in earlier sessions are not refundable.

Program Requirements
Co-op programs require at least eight four-month terms of full-time study, and the satisfactory completion of two or three four-month work terms, as specified by the particular program. Students who successfully complete all the requirements associated with a work-term are awarded 0.5 credit, those credits being additional to the 2.0 normally required for the degree. Work terms are evaluated by program faculty, the Co-op Office, and the employer, and a grade of CR (credit)/NCR (no credit) is recorded on the transcripts.
To maintain good standing in a co-op program, to be eligible for a work term, and to receive certification for its completion on graduation, a student must:
- Meet all of the normal requirements for the Honours B.A., B.Sc., or B.B.A. degree;
- Follow the course of studies described for the specific program;
Joint Programs with Centennial College

- Complete the non-credit co-op work term preparation course and any other prerequisites for the work term as required by the specific program;
- Maintain a cumulative grade point average (CGPA) of at least 2.50 (note that this is higher than the CGPA of 1.60 required for good standing in regular non-co-op programs);
- Receive a satisfactory evaluation for work term performance and work term report;
- Register as a full-time student during study terms (i.e., a course load in each study term of at least 1.5 full credits and normally 2.5);
- Return to studies after each work term;
- Remit co-op fees as assessed by the University.

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

Status in Co-op Programs

- Status in a co-op program will be determined at the end of each session (Fall, Winter, and Summer) for students who have attempted at least three full credits since beginning their studies at the University of Toronto Scarborough or in other arts and science divisions of the University.
- Students who have attempted at least three full credits and have a cumulative GPA (CGPA) of less than 2.50 but of 2.30 or more are placed on probation in the co-op program (i.e., they remain in the program subject to certain conditions). Students may clear probation by achieving a CGPA of 2.50 or better in the next study session.
- Students may continue on probation by achieving a seasonal GPA of at least 2.50 in the next session. Students must clear their probation within two study sessions in order to remain in a co-op program.
- Students on probation in the co-op program may not apply for a work term until they have successfully cleared their probation. However, if a student’s CGPA falls below 2.50 after having secured a job placement through the placement process, the student will be permitted to complete the work term; such a student will be permitted to participate in the next recruitment process only after successfully clearing probation.
- Students who have attempted at least three full credits and have a CGPA of less than 2.36, or who have failed to clear probation within two study sessions, will be removed from the co-op program.

Introduction to Co-op Work Term Preparation Course

During their first year of enrollment in a co-op program, students will participate in a non-credit co-op work term preparation course designed to prepare them for their work term experience and to maximize the benefits to be obtained from the associated learning opportunities. The tutorials will cover a variety of topics to help students develop the skills and tools needed to secure work placements appropriate to their program of study, and to perform professionally in the workplace. Satisfactory participation in this preparation course is required before students may go on work terms. No academic credit is given for the course and no fee is charged. For the name of the course appropriate to each program, see the relevant program description.

Work Terms

Work terms are an integral part 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 skills that are important in the academic programs. Work term opportunities are arranged by the Co-op Office for the program, but must be won by students in competition with all applicants for the position. While on a work term, students remain in contact with the University, and prepare for the submission of a work-term report for evaluation by a faculty member. In addition, both the employer and the coordinator for the program will evaluate the student’s performance on work terms. The work-term report must be submitted no later than the end of the second week of the study term immediately following the completion of the work term. 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 for a work placement after three or four academic terms of full-time study, as specified for individual programs. To be eligible for the first work term, students must be in good standing in the program (see above, under Program Requirements) and have completed any other requirements specified by the particular program. 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).

Course Requirements

For the courses required, see the Calendar entry for each specific program.

Joint Programs with Centennial College

The University of Toronto Scarborough and Centennial College have established joint programs. The 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 degree. Students 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 may be taken only as part of an honours degree. For specific program details, please see the detailed program entry in the appropriate discipline and visit the Joint Programs website: www.uottawa.ca/jprogs.
University of Toronto Scarborough 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 who do not necessarily wish to complete a Specialist, Major or Minor Program 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 if they return to the U of T Scarborough for further language study that contributes to the assessment of the Citation.

Requirements for the Language Citation

1. Students must complete two full 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 two full 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 one full 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 Department of Humanities in advance of graduation, presenting the Department with a copy of their academic record (produced from RSGL through the Student Web Services) and indicating the courses they would like considered in the assessment. (For more information, contact language-coordinator@utsc.utoronto.ca or french-program-supervisor@utsc.utoronto.ca.)

The Language Citation will consist of a notation in the U of T Scarborough section of the university transcript that reads: "Completed the requirements of the Language Citation in [Name of Language]."
Guide to Programs & Courses Offered

Program (also known as Subject Post) and course descriptions are listed by discipline in the Programs and Course Descriptions section of this Calendar.

Programs
Some Programs have strict enrolment limits. In the event that the number of qualified applicants exceeds the teaching or other resources available, enrolment in other Programs may have to be limited at a future date.

Notes:
- Application procedures for current students are available at: www.arts.utoronto.ca/subjectpost
- Tuition amounts vary with different University programs. Please consult the Student Accounts website at www.arts.utoronto.ca for further information.

The following is a list of programs currently offered by U of T Scarborough. Co-op = Co-operative option available CTEP = Eligible anchor subject in the Concurrent Teacher Education Program.

<table>
<thead>
<tr>
<th>Area</th>
<th>Department</th>
<th>Program</th>
<th>Type</th>
<th>Degree</th>
<th>Co-op</th>
<th>CTEP</th>
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<tbody>
<tr>
<td>African Studies</td>
<td>Humanities</td>
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<td>Minor</td>
<td>BA</td>
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Courses
See also the "Course Selection" section of this Calendar and "How to Read a Course Description" below.

Exclusions, Prerequisites and Corequisites

1. Exclusions
   Students may not register for credit in a 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.) Courses are not always mutually exclusive, so it is important to check the entries for both courses when one lists the other as an exclusion. Where students enrol in an excluded course, the second course will be marked as an extra course (see "Standing in a Course" in the Registration section of this Calendar) and, although it will appear on the transcript, it will not count towards the degree.

Notes:
   a) Students should be aware that ROSI does not automatically check for exclusions. Although courses will be identified as extra courses as soon as the exclusion is discovered, this could happen without warning at any time during the student's studies at U of T Scarborough.
   b) Although they may not appear in this Calendar, some Faculty of Arts & Science or U of T Mississauga courses may be exclusions of U of T Scarborough courses and vice versa. Similarly, some U of T Scarborough courses, particularly ones that are no longer in the curriculum, may not appear in this Calendar as exclusions. If U of T Scarborough, U of T Mississauga and Faculty of Arts & Science courses have similar titles or content, contact the Departmental Office offering the course(s) to determine if the course(s) content is so similar that the courses should be considered as exclusions. It is always good practice to consult an academic advisor or program supervisor before taking courses on other campuses.

2. Prerequisites
   Students must have passed the prerequisite course before enrolling in the course being described. Instructors are permitted to waive prerequisites if they feel that there are adequate grounds for doing so. The Registrar’s Office does not require notification of a prerequisite waiver. However, when the course being waived is listed as a program requirement, students should discuss the matter in advance with their program supervisor – a program exception form may be necessary. 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 who are not withdrawn from the course remain in it at their own risk for lack of the prerequisite is not grounds for special consideration. Students who complete courses for which they have obtained a waiver of specific prerequisites may not subsequently obtain credit for the less-advanced prerequisite courses. Students may not register for credit in a course that is a specific prerequisite for a course they have already passed. In these instances, the course will be counted as "extra" (see the section of this Calendar on extra courses).

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 doing so. If students register in a course without meeting its corequisite, or if they withdraw from the co-required course without obtaining a specific waiver of the corequisite, they may be withdrawn from the course at any time. Students who are not withdrawn from the course remain in it at their own risk for lack of the corequisite is not grounds for special consideration.

4. Prerequisites in Square Brackets
   Square Brackets are used in prerequisites to indicate aggregate or alternate choices example: [ECMB01H1 or ECOM02H1] & [ECMB03H1 or ECOM04H1]

5. Recommended
   In addition to prerequisites and corequisites, other background material or courses that enhance a student’s understanding of a course may be listed in the course description as "Recommended".

6. Exclusions, Prerequisites and Corequisites in Parentheses
   Some exclusions and some prerequisite and corequisite courses are enclosed in parentheses; example (MGTC03H). This indicates that the course is no longer in the curriculum. Students who have already passed an excluded course contained in parentheses may not take the course being described. Students who have completed, in a previous session, a prerequisite or corequisite course contained in parentheses may make use of the course to meet the requirements of the course being described.

Supervised Reading, Supervised Research and Independent Study Courses
   Students may take 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 before enrolling 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 the Supervised Study forms.

WebOption Courses
   Some U of T Scarborough courses have webOption sections intended to provide enhanced flexibility with respect to how and when students attend lectures. These sections are normally created by taking instructors as they give their traditional lectures, then posting these taped 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.
How to Read a Course Description

**MGST** is the course discipline or subject area of the course; in this case, Management.

C indicates the level of the course: "A" indicates the most elementary level and "D" the most advanced; in this case, "C" indicates a third year course.

7 indicates the number that identifies the course in shorthand form. In most disciplines, the number has no significance.

**MGTC71H3** indicates the course credit value:
- H = half credit (0.5)
- Y = full credit (1.0)

**MGTC71H3**
- the campus identifier
- "3" indicates a course held at UTSC

Exclusion: A course with content too similar to another for credit to be given for both. In this case, you may not take MGTC71H for credit if you are taking or have already passed MGTC43H. See detailed description of exclusions in "Courses" above.

**Exclusion:** MGTC43H

**Prerequisite:** A course you need to take before you are qualified to take this one. To take MGTC71H, you must first pass ECMB11H or ECMB00Y and MGTC09H or MGT03H or MGT02Y. See detailed description of prerequisites in "Courses" section above.

**Prerequisite:** [ECMB11H or ECMB00Y] & [MGTC09H or (MGTC09H or MGTC02Y)]

**Corequisite:** MGTC09H

Corequisite: A course you must take at the same time as this course (unless you have passed it previously). To enrol in MGTC71H, you must also enrol in MGTC09H. See detailed description of corequisites in "Courses" above.

**Corequisite:**
African Studies

(B.A.)

Faculty List

M. Gervais, A.B. (Princeton), M.A. (Potsdam), Ph.D. (Toronto), Professor
M. Lambeck, B.A. (McGill), M.A., Ph.D. (Michigan), F.R.S.C., Professor
J. Nadiraga, M.A. (Montreal-UQAM), Ph.D. (Montreal-UQAM), Associate Professor
S.J. Rockel, M.A., Ph.D. (Toronto), Associate Professor
N. Ten Kortenaar, M.A., Ph.D. (Toronto), Associate Professor
A. Huchitni, B.A. (Monsatry (Israel), M.A. (Hawaii), Ph.D. (Hawaii), Assistant Professor
E.A. Hamey, M.Phil., Ph.D. (London), Assistant Professor
K. McCordle, M.A., Ph.D. (Toronto), Senior Lecturer

Program Director: S. Rockel (416-287-7145) Email: rockel@arts.utoronto.ca

African Studies is in the strong and evolving tradition of innovative interdisciplinary programs based in Humanities at UTSC. The foundation of the program lies in the unique nature and particular strengths of the Department of Humanities yet it reaches out to the Social Sciences and beyond. African Studies aims to widen students' knowledge and experience from different perspectives in relation to the second largest, in some respects most complex, but least understood continent, and its peoples and their diaspora. It encourages students to engage with and explore ideas and material concerning African histories, cultures, economies, political systems, artistic expression and systems of belief. In many program courses Africa, its peoples and their cultures are situated in relation to the wider world. The study of interconnections over long periods of time with Europe, Asia, and the Americas highlights Africa's central role in world history. Several courses concentrating on recent periods and the currency era challenge students to think beyond the stereotypes of Africa as marginal to the process of globalization. Throughout the program students explore the existing recent developments in our understanding of African civilizations, thought, political and religious systems, and histories of slavery, colonialism, racism, and nationalism. A number of courses emphasize modern 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 in all of the disciplines and to reject preconceived myths and stereotypes that permeate mainstream and popular cultures in the West. As in other Humanities based programs at UTSC 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.

MINOR PROGRAM IN AFRICAN STUDIES

Program Supervisor: S. Rockel (416-287-7145) E-mail: afs-program-supervisor@uts.utoronto.ca

Program Requirements

Students must complete four full credits, as follows:

1. AFS01H Africa in the World: An Introduction
2. 1 credit from the following (students should check course descriptions for prerequisites):
   ANT06H African Cultures and Societies I: Survey
   HIS05H Africa in the Nineteenth Century
   HIB01H Twentieth Century Africa
3. 2.5 credits from the list below; at least 1.0 credit must be at the C- or D-level (students should check course descriptions for prerequisites):
   ANT05H African Cultures and Societies I: Survey (if not used in Requirement 2)
   ANTC06H African Cultures and Societies II: Case Studies
   ENGB1H Contemporary Literature from the Caribbean
   ENGC1H Contemporary Literature from Sub-Saharan Africa
   ENGD08H South African Literature
   ENGD1H James Baldwin, the African American Experience, and the Liberal Imagination
   ENGD03H Rap Poetics
   FREA01H Language Practice I
   FREA02H Language Practice II
   FREA03H Language Practice III
   FREA04H Language Practice IV
   FREB05H Francophone Literature
   FREC47H Special Topics in Linguistics: Pidgin and Creole Languages
Anthropology

(30-705Y)

AFSA01H3 Africa in the World: An Introduction
An interdisciplinary introduction to the history and development of African Studies with Africa’s place in the wider world a key theme. Students critically engage with African and diasporic histories, cultures, social structures, economies, and belief systems. Course material is drawn from Archaeology, History, Anthropology, Geography, Literatures, the Arts and Women’s Studies.
Exclusion: NEW 150Y

Faculty List
F. D. Burton, B.Sc., M.A., (NYU), Ph.D. (CUNY), Professor Emeritus
R.W. Shirley, M.A. (Stanford), Ph.D. (Columbia), Professor Emeritus
M. Lambek, B.A. (McGill), M.A., Ph.D. (Michigan), F.R.S.C., Professor
S. Bamford, B.A. (Toronto), M.A. (McMaster), M.A., Ph.D. (Virginia), Associate Professor
M. Latta, B.A. (Kansas), M.A., Ph.D. (Toronto), Associate Professor
L. Savicka, B.A. (Manitoba), Ph.D. (Toronto), Associate Professor
M. Schillaci, B.A. (New Mexico), M.A. (Toronto), Ph.D. (New Mexico), Associate Professor
M. Cummings, B.A. (York), M.A. (Dalhousie), Ph.D. (York), Associate Professor
G. Dweiri, B.Sc. (National University of Singapore), M.Sc., Ph.D. (London School of Economics), Assistant Professor
G. Dewar, B.Sc., M.A. (Toronto), Ph.D. (Cape Town), Assistant Professor
L. Morison, B.A. (Cornell), M.A., Ph.D. (Indiana), Assistant Professor
T. Orchard, B.Sc., M. (Victoria), PhD (Toronto), Assistant Professor
J. Parga, B.S. (University of California - Irvine), M.A., Ph.D. (University of Texas - Austin), Assistant Professor

Discipline Representative: TBA

Undergraduate Counsellor: J. Roopnarine email: social-sciences.counsellor@utoronto.ca

Anthropology is the study of humankind, dealing with the origin, development and nature of humans and their culture. As such it is concerned with human phenomena in the widest possible terms, both biological and cultural. It differs from other social sciences in its comparative and historical approach, and in its intimate links with the physical and natural sciences. Anthropology examines societies today and in the past, both complex civilizations and relatively small-scale non-literate societies. From this vantage point Anthropology attempts to understand the common factors underlying human existence and to isolate the causes that have led and continue to lead to both social and cultural change and to differences between peoples and cultures.

Because of its vast subject matter, Anthropology is traditionally divided into four sub-fields: Social-Cultural Anthropology, Archaeology, Physical Anthropology and Anthropological Linguistics. At the present time, University of Toronto Scarborough offers courses in the first three areas. Students intending to complete a program in Anthropology should take ANTA01H & ANTA02H within their first year in order to prepare them for more advanced courses. Students wondering about appropriate course sequences in a subfield are invited to consult with the Supervisor of Studies and faculty in the appropriate subfield. Students may elect either a B.A. or a B.Sc. degree in Anthropology. Most courses in Archaeology and Physical Anthropology carry science credit (see course descriptions below). Consult the Supervisor of Studies for clarification.
SPECIALIST (CO-OPERATIVE) PROGRAM IN ANTHROPOLOGY (B.A./B.Sc.)

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

The Co-operative Program allows students to pursue an in-depth study of Anthropology, combined with two four-month work terms in areas complementary to the area of study. Students select a focus for their course work and work term in Biological Anthropology, Medical Anthropology, Archaeology or Social-Cultural Anthropology. Work terms can be with Canadian employers including NGOs, research institutes, the private sector, and public institutions. Students who wish to carry out their work terms in a developing country where there is no Canadian employer working, may be asked to finance the living allowance expenses of the placements themselves. The location of work terms is determined according to each student’s preferences and abilities, the availability of positions, the practicability of working in that area, and above all, the safety of the area.

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

Current U of T Scarborough students: Application procedures can be found at the Registrar’s Office website at: www.utc.utoronto.ca/subjpost. The minimum qualifications for entry are 4.0 credits including ANTA01H & ANTA02H plus a cumulative GPA of at least 2.5.

Program Requirements

For information on admissions, fees, work terms, and standing in the program, please see the Co-operative Programs section in this Calendar. To be eligible for a work term, students must have completed at least 9.0 full credits including at least 3.0 credits in Anthropology, and must have completed the Arts & Science Work Term Preparation course.

Course Requirements

Students must complete the requirements for the Specialist Program in Anthropology. Study of a foreign language is recommended. Within the 10.0 credits in Anthropology required for the Co-op Program, they must concentrate at least 4.0 credits in ONE of the following fields: Biological Anthropology, Medical Anthropology, Archaeology or Sociocultural Anthropology.

SPECIALIST PROGRAM IN ANTHROPOLOGY (B.A./B.Sc.)

The Specialist Program in 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. All students are required to consult with the Supervisor of Studies 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 (ANTC03H, ANTC04H, ANTD35H & ANTD36H). These courses require special arrangements prior to registration. Read the descriptions for these courses carefully, as restrictions apply.

Program Requirements

The Program requires completion of 12.0 full credits, including 10.0 in Anthropology, as indicated below.

1. ANTA01H Introduction to Anthropology: Becoming Human
   ANTA02H Introduction to Anthropology: Society, Culture and Language

2. At least 1.0 credit from each of two of the following three streams:
   a) ANTB14H Biological Anthropology: Beginnings
      and
      ANTB15H Contemporary Human Evolution and Variation
   b) ANTB19H Varieties of Social Life
      and
      ANTB20H Culture, Politics and Globalization.
   c) [ANTB11H World Prehistory: the Old Stone Age
      and
      ANTB12H World Prehistory: the Rise of Civilization] or
      [ANTB33H First Nations of North America: Hunters and Gatherers
      and
      ANTB39H First Nations of North America: Social Complexity and the State]

3. 7.0 credits at the B-level or above, of which 2.0 credits should be at the C- or D-level. Students are encouraged to take at least one course in field methods, such as ANTC12H, ANTC28Y and ANTC60H.

4. At least 2.0 credits in disciplines other than Anthropology to be agreed upon in consultation with the Supervisor of Studies.

- Students selecting a B.A. degree should endeavour to ensure that at least 2.0 credits from the above courses are in area studies.
- For a B.Sc. at least 7.0 of the credits required for the program must be science credits. In addition to Anthropology courses that have been designated science credits (see course descriptions below), the following may also be counted as science credits if they are used to meet the requirement for 2.0 credits in disciplines other than Anthropology: HLTB01H, HLTB02H or any course in a science discipline (e.g. Biology, Environmental Science, Mathematics).
MAJOR PROGRAM IN ANTHROPOLOGY (B.A./B.Sc.)

The Major Program in 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 humankind.

Program Requirements
The Program requires completion of 6.0 full credits in Anthropology including:

1. ANTA01H Introduction to Anthropology: Becoming Human
   ANTA02H Introduction to Anthropology: Society, Culture and Language

2. At least 1.0 credit from each of two of the following streams:
   a) ANTB14H Biological Anthropology: Beginnings
      ANTB15H Contemporary Human Evolution and Variation
   b) ANTB19H Varieties of Social Life
      ANTB20H Culture, Politics and Globalization
   c) [ANTB11H World Prehistory: the Old Stone Age]
      [ANTB12H World Prehistory: The Rise of Civilization and the State]
      [ANTB38H First Nations of North America: Hunters and Gatherers]
      [ANTB39H First Nations of North America: Social Complexity and the State]

3. 3.0 additional credits at the B-level or above, of which at least 1.0 credit must be at the C- or D-level.

For a B.Sc., at least 4.0 of the credits required for the program should carry science credit (see course descriptions below).

MINOR PROGRAM IN ANTHROPOLOGY (B.A.)

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

Program Requirements
The Program requires completion of 4.0 full credits as follows:

1. ANTA01H Introduction to Anthropology: Becoming Human
   ANTA02H Introduction to Anthropology: Society, Culture and Language

2. At least 1.0 credit from among the following:
   a) ANTB14H Biological Anthropology: Beginnings
      ANTB15H Contemporary Human Evolution and Variation
   b) ANTB19H Varieties of Social Life
      ANTB20H Culture, Politics and Globalization
   c) [ANTB11H World Prehistory: the Old Stone Age]
      [ANTB12H World Prehistory: The Rise of Civilization]
      [ANTB38H First Nations of North America: Hunters and Gatherers]
      [ANTB39H First Nations of North America: Social Complexity and the State]

3. 2.0 additional credits in Anthropology, of which 1.0 credit must be at the C- or D-level.

SPECIALIST PROGRAM IN MEDICAL ANTHROPOLOGY (B.A./B.Sc.)

The Specialist Program in Medical Anthropology integrates the fields of Social-Cultural Anthropology, Physical Anthropology, and Archaeology by taking health, medicine, and disease as a focus for anthropological studies. This unique undergraduate program is designed to provide knowledge and skills in an area of growing importance for a wide range of health-related studies and work, and it is also intended to provide students with the necessary preparation to pursue graduate studies in masters and doctoral Programs in the area of Medical Anthropology.
Program Requirements
The Program requires the completion of 12.5 full credits, including 10.5 in Anthropology, as follows:

1. 4.0 credits required for all students as follows:
   - ANTA01H Introduction to Anthropology: Becoming Human
   - ANTA02H Introduction to Anthropology: Society, Culture and Language
   - ANTB14H Biological Anthropology: Beginnings
   - ANTB15H Contemporary Human Evolution and Variation
   - ANTB19H Varieties of Social Life
   - ANTB20H Culture, Politics and Globalization
   - ANTC02H Medical Anthropology: Illness and Healing in Cultural Perspective
   - ANTC03H Medical Anthropology: Biological and Demographic Perspectives

2. At least 0.5 credit in quantitative methods or field methods, such as ANTC35H or ANTC65H. A course in statistics may be substituted for ANTC35H.

3. 6.0 credits from the following:
   - Any substitutions are subject to the permission of the Supervisor of Studies.

4. 2.0 credits at the B-level or higher from disciplines other than Anthropology to be agreed upon in consultation with the Supervisor of Studies.

For a B.Sc. degree, at least 7.0 of the credits required for the program must be science credits. In addition to Anthropology courses that have been designated science credits (see course descriptions below), the following may also be counted as science credits if they are used to meet the requirement for 2.0 credits in disciplines other than Anthropology: HL TB001H, HL TB002H or any course in a science discipline (e.g. Biology, Environmental Science, Mathematics).

ANTAO1H Introduction to Anthropology: Becoming Human
An introduction to Biological/Physical Anthropology and Archaeology.
Concentrates on the origins and evolution of human life, including both biological and cultural aspects, from the ancient past to the present.
Exclusion: ANTB00Y

ANTAO2H Introduction to Anthropology: Culture and Language
An introduction to socio-cultural anthropology.
Addresses the concepts of culture, society, and language and the anthropological perspective on cultural difference and societies of varying scale. Family, economic, political, and religious systems are illustrated from a variety of the world’s cultures.
Exclusion: ANTB00Y

ANTB01H 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 struggle to live within culturally constructed landscapes. Topics covered include ethnobotany, conservation, green consumerism, the concept of 'wilderness', and what happens when competing and differently empowered views of the non-human world collide.
Prerequisite: [ANTA01H & ANTA02H] or permission of the instructor

ANTB04H3 Artifacts and Prehistory
An introduction to the analysis of archaeological artifacts of stone, ceramics, metal and bone. Emphasis on identification, construction, and function of material culture in ancient societies, together with the ways that this information helps to reconstruct the past.
Science credit.
Prerequisite: ANTA01H & ANTA02H

ANTB05H3 African Cultures and Societies I: Survey
An overview of the range and diversity of African social institutions, religious beliefs and rituals, kinship, political and economic organization, pre-colonial, colonial, and post-colonial experience.
Area course.
Prerequisite: [ANTA01H & ANTA02H] or permission of the instructor

ANTB08H3 The Chinese Diaspora
This course investigates the societies and cultures of the Chinese diaspora, with special but not exclusive focus on Southeast Asia and elsewhere in the Asia Pacific.
Area course.
Prerequisite: [ANTA01H & ANTA02H] or permission of the instructor
ANTB1193 Introduction to World Prehistory: The Old Stone Age
The development of art, technology, religion and lifeways of hunters and gatherers living during the Paleolithic, from two million to ten thousand years ago. Emphasis is placed on ecological-adaptive factors and archaeological evidence bearing on the beginnings of human culture.
Area course
Science credit.
Prerequisite: [ANTA01H & ANTA02H] or permission of the instructor

ANTB1293 Introduction to World Prehistory: The Rise of Civilization
An examination of the agricultural and urban transformations which gave rise to modern human societies. The course emphasizes the ecological-adaptive factors and the archaeological evidence bearing on the beginnings of permanent human settlements, the domestication of plants and animals, and the development of complex social and technological systems.
Area course
Science credit.
Prerequisite: ANTA01H & ANTA02H

ANTB1493 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, palaeontological principles and human origins.
Science credit.
Exclusion: ANTB20Y
Prerequisite: [ANTA01H & ANTA02H] or permission of the instructor

ANTB1593 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 by the Physical Anthropologist. 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.
Exclusion: ANTB20Y
Prerequisite: [ANTA01H & ANTA02H] or permission of the instructor

ANTB1693 Canadian Cultural Identities
This course has two objectives: to explore the regional and ethnic diversity of contemporary Canadian cultures, and to examine the forces which operate to bind Canadians together through Canadian literature, myth and symbolism, mass media, and political culture.
Area course.
Prerequisite: [ANTA01H & ANTA02H] or permission of the instructor

ANTB1993 Varieties of Social Life
An introductory survey of social-cultural anthropology and approaches to understanding the global diversity of human societies. Topics include the culture concept in anthropology, the nature of fieldwork, the social dimensions of language, and the various dimensions of social organization, including the cross-cultural study of economic and political institutions.
Exclusion: ANTB20Y
Prerequisite: [ANTA01H & ANTA02H] or permission of the instructor

ANTB2093 Culture, Politics and Globalization
A further examination of approaches to the study of human cultural diversity. Subjects to be discussed include the study of such cultural identities as ethnicity and nationalism, globalization and the creation of a global culture, the political dimensions of culture, religion, and the anthropological study of kinship, marriage and family.
Exclusion: ANTB20Y
Prerequisite: [ANTA01H & ANTA02H] or permission of the instructor

ANTB2293 Primate Behaviour
A general introduction to the study of the life ways of non-human primates with particular emphasis on observing and recording primate behaviour. Readings and lectures develop the context in which observations are analyzed. Tapes of recording and analysis are practiced and presented in seminars.
Science credit.
Exclusion: [ANTB22Y]
Prerequisite: ANTB14H

ANTB2593 Myth, Movies & Monkeys: The Construction of Human Nature
A fundamental question in anthropology asks: is there a "human nature?" We investigate this desire to see ourselves reflected in other creatures by exploring myths, legends, and films which use monkeys and apes as metaphor virtually creating the "familiar" being of humans.
Science credit.
Prerequisite: ANTA01H & ANTA02H recommended

ANTB3093 Conceptualizing Religion
Anthropological approaches to the origin and function of religion, and the nature of symbolism, myth, ritual, sociocentric spirit possession, and cosmology, with primary reference to the religious worlds of small-scale societies.
Prerequisite: [ANTA01H & ANTA02H] or permission of the instructor, ANTB19H & ANTB30H recommended

ANTB3893 First Nations of North America: Hunters, Gatherers, Farmers
An introduction to the origin and diversification of aboriginal traditions in Canada and the United States from the late Pleistocene to the present. The course will emphasize environmental and social factors in the processes of culture change including the origins of food production and the growth of ethnic diversity.
Area course
Science credit.
Prerequisite: ANTA01H & ANTA02H
ANTC081H3 First Nations of North America: Social Complexity and the State
The rise of social complexity among aboriginal peoples in the Americas, with examples drawn from the Northwest Coast, the Pueblos, the Mississippian peoples, the Maya and the Anasazi. Emphasis on social, political and belief systems, together with a consideration of the role of war, art and science in developing states.
Area course.
Science credit.
Prerequisite: ANTA02H & ANTA02H

ANTC541H3 Peoples of the Middle East: An Introduction
An exploration of the range of cultures, languages, religions, and practices of the Middle East and North Africa, with particular focus on Islam.
Area course.
Prerequisite: [ANTA01H & ANTA02H] or permission of the instructor

ANTC650H3 Health and the Urban Environment
Described literally as 'dungeons of humankind', urban centres prior to 1900 subjected their inhabitants to crowded living conditions, poor sanitation, increased inter-personal contact and, at times, excessive mortality through acute infections. Using a holistic approach, the course will trace the origin and development of cities with particular emphasis on the importance and development of housing infrastructure, food by-laws, water supply, sanitation system, medical facilities and their role in influencing the health of urban dwellers.
Science credit.
Prerequisite: Any A-level course

ANTC653H3 ANTC654H3 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 are arranged. A minimum B 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 & ANTA01H & ANTA02H & one B-level full credit in Anthropology.

ANTC664H3 African Cultures and Societies II: Case Studies
Complements ANTB05H by giving closer examination to selected issues in African ethnography. Case studies from different parts of the continent are used to highlight specific themes and issues.
Area course.
Prerequisite: ANTB05H or ANTB19H or permission of the instructor

ANTC673H3 The Making of Modern Life: Artifacts of Contemporary Society
Complements ANTB04H. An investigation of the origins and development of material and immaterial artifacts which make up modern society. We will examine tools, toys, ornaments, housing, clothing, food and communications media, and we will consider this information as used in culture resource management, forensic anthropology and museology.
Science credit.
Prerequisite: ANTB04H or permission of the instructor.
ANTC339H or ANTB12H recommended

ANTC684H3 Development, Inequality and Social Change in Latin America
Addresses agrarian policies, immigration, modernization and dependency theories, structural adjustment and free trade, U.S. foreign policy and militarism, especially post-WWII, as well as revolution, liberation theology and other movements for alternative development. Who speaks for the poor and marginalized? Who is served by development? Area course.
Limited enrolment: 60
Prerequisite: ANTB19H or ANTB20H

ANTC689H3 Families: Kinship and Marriage from a Cross-Cultural Perspective
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.
Limited enrolment: 50
Prerequisite: ANTA01H, ANTA02H, ANTB19H & ANTB20H

ANTC690H3 Anthropological Perspectives on Development
A critical probe of the origins, concepts, and practices of development in cultural perspective. Attention is paid to how forces of global capitalism intersect with local systems of knowledge and practice.
Limited enrolment: 25
Prerequisite: [ANTB19H & ANTB20H] or permission of the instructor

ANTC691H3 Culture, Science and Biotechnology: Redefining the "Natural" Order of Things
This course examines how recent developments in biotechnology - cloning, the manufacture of genetically modified organisms, assisted reproduction technologies, and the mapping of the human genome, to name a few - are transforming our understanding of what it means to be human, including the relationship between human beings and other species.
Limited enrolment: 70
Exclusion: ANTC05H
Prerequisite: ANTC09H
ANTC12H3 Research on the Social Behaviour of Non-Human Primates
This course concentrates on field techniques in the study of non-human primates. Field work is two weeks within the semester. Daily routine: dawn to dusk; evening analyses; some free time. Evaluation: participation, preliminary research, field notes, log book and seminar or paper. Science credit.
Limited enrolment: 10
Prerequisite: ANTBI0.5H or (ANTBI22Y & permission of the instructor)

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: [ANTBI91H & ANTBI20Y] or permission of the instructor

ANTC15H3 Gender and Sexualities
Complements and extends ANTCI4H by exploring cultural constructions of male and female in a range of societies and institutions. Prerequisite: [ANTBI91H & ANTBI20Y] or permission of the instructor. ANTCI4H recommended

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 and humanisation with specific reference to the emergence of Homo. Lab permits contact with fossils in casts. Science credit.
Exclusion: [ANTC32Y]
Prerequisite: [ANTAO1H & ANTA20H] or permission of the instructor

ANTC17H3 Human Origins: New Discoveries
The study of human origins in light of recent approaches surrounding human evolution. New fossils present new approaches and theory. This course will examine some of these, particularly the process of speciation and humanisation with specific reference to the emergence of Homo. Lab permits contact with fossils in casts. Science credit.
Exclusion: [ANTC32Y]
Prerequisite: [ANTAO1H & ANTA20H] or permission of the instructor

ANTC18H3 Urban Anthropology
Examines the social organization and cultural formations of groups in cities in comparative perspective, with special attention to innovative research concerning urban governance, cultural diversity, and political contestations over urban space. Limited enrolment: 60
Prerequisite: ANTBI98.1 & ANTBI20H. ANTBI56H recommended.

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 and cultural mediators in colonial and post-colonial encounters. Prerequisite: [ANTAO1H & ANTA20H] or permission of the instructor

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 their own society, a subject at once obvious and mysterious. Prerequisite: [ANTAO1H & ANTA20H] or permission of the instructor. ANTBI91H & ANTBI20H recommended.

ANTC21H3 Canadian Native Peoples: Traditional Values
This course examines the traditional cultures of Canadian native peoples through the media of archaeology, ethno-history and oral tradition. Questions to be considered involve: the nature and source of political authority, issues of self-government, and the balance between development and tradition in reserve and urban settings.
Area course.
Prerequisite: Any B-level course in Anthropology or permission of the instructor

ANTC22H3 Canadian Native Peoples: Contemporary Concerns
This course examines contemporary issues which concern Canadian native peoples. Questions to be considered involve: the nature and source of political authority, the status and rights of women and off-reserve individuals, definition of educational systems, enforcement mechanisms and the rights of the individual and the bond to personal and collective freedom.
Area course.
Prerequisite: ANTCC2H

ANTC23H3 Private Sexuality
This course will review private socio-sexual behaviour from an evolutionary perspective. Following a broad survey of mating patterns in the primate order, specific topics will be discussed, including male and female mating strategies, mate choice and sperm competition. Taxonomic groups of focus will include primates, monkeys, apes and humans. Science credit.
Prerequisite: ANTBI20H

ANTC25H3 Anthropology and Psychology
How are we to understand the relationship between psychic 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. Science credit.
Prerequisite: [ANTAO1H & ANTA20H. ANTHB36 & ANTB20H recommended]
ANTC26H3 The Theory of Archaeology: Basic Concepts
Introduces fundamental concepts of prehistoric archaeology in the New and Old Worlds, including dating methods, site survey, and excavation techniques. Science credit.
Exclusion: ANT200Y
Prerequisite: ANT401H & ANT402H or [ANTB11H & ANT12B1H] or [ANTB30H & ANT20H] or ANT308H or ANT309H are recommended.

ANTC27H3 The Practice of Archaeology: Practical Applications in a Global Society
Introduces theoretical and methodological concepts in archaeology including questions related to reconstruction of prehistoric environments and the identification and explanation of social/cultural systems. It will also examine the role of archaeology in modern society through Culture Resource Management. Science credit.
Exclusion: ANT200Y
Prerequisite: ANT401H & ANT402H or [ANTB11H & ANT12B1H] or [ANTB30H & ANT309H] are recommended.

ANTC28Y3 Introduction to Archaeological Field Methods
Introduction and training in the methods and theory of archaeological fieldwork, including excavation, environmental evaluation, survey and mapping methods, and basic artifact identification and conservation. Special components on criteria relevant to the site including site history, soils and natural resources. This course takes place at an archaeological site, and it involves full-time excavation (all day, five days per week) over the full duration of the course. Science credit.
Exclusion: ANT311Y
Prerequisite: Any B-level course in Anthropology or Physical Anthropology or a B-level course in a cognate discipline

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: [ANT401H & ANT402H] or ANT301H or permission of the instructor. ANT100H & ANT200H recommended.

ANTC32H3 Political Anthropology
A general survey of the role of political systems in a largely "development" framework. Prerequisite: [ANT401H & ANT402H] or permission of the instructor. ANT100H & ANT200H recommended.

ANTC34H3 The Anthropology of Transnationalism
Considers dimensions of transnationalism as a mode of human sociality and site for cultural production. Topics covered include transnational labour migration and labour circuits, the transnational dissemination of electronic imagery, emergence of transnational consumer publics, transnational movements by refugees and social movement activists, and border crossing by international NGOs. Limited enrolment: 40
Prerequisite: ANT100H & ANT200H

ANTC35H3 Quantitative Methods in Anthropology
A consideration of quantitative data and analytical goals, especially in archaeology and physical anthropology. Some elementary computer programming, and a review of program packages suitable for anthropological analyses will be included. Science credit.
Exclusion: EGB11H, PSYB07H, SOC360H
Prerequisite: ANT401H & ANT402H, ANT131H & ANT20H are recommended.

ANTC39H3 Foundation and Theoretical Issues 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. Lecture topics include population and societal strategies for survival and adaptation, population structure of small-scale and urban societies, and palaeodemography and palaeoanthropology. Prerequisite: [ANT141H & ANT131H] or permission of the instructor

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: ANT39H3 or permission of the instructor

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: [ANT141H & ANT131H] or [BGYA01H & BGYA02H]

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: ANT41H or permission of instructor

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. Limited enrolment: 40
Exclusion: ANT334H, ANT334Y
Prerequisite: ANT141H
ANTC44H3 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) osteological 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) palaeopathology.
Science credit.
Limited enrolment: 40
Exclusion: ANT334H, ANT334Y
Prerequisite: ANT447H or permission of instructor

ANTC50H3 Death and Burial
A cross-cultural study of human responses to the problem of death and suitable treatment of the dead from the Pleistocene to the present, including the origins of symbolic thought, and the impact of cultural complexity, urbanization and social stratification. Course work involves an independent research project on a chosen aspect of this topic.
Science credit.
Prerequisite: Any B-level course in Anthropology or permission of the instructor

ANTC55H3 Muslim Societies
Complements ANT554H by more closely considering selected issues in societies professing Islam, based on ethnographic case studies from the Middle East, Africa, and Asia.
Area course.
Prerequisite: ANT554H or permission of the instructor

ANTC60H3 Fieldwork in Social and Cultural Anthropology
An investigation of how social-cultural anthropologists collect data and conduct fieldwork. Students complement reading and lectures on method with designing and carrying out a small project. Emphasis on participant-observation, interviewing, and ethics.
Limited enrolment: 35 with preference given to students in anthropology and international development studies.
Prerequisite: [ANTB19H & ANT20H] or permission of the instructor

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 healthcare delivery systems.
Prerequisite: [ANTB19H & ANT20H] or permission of the instructor

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, ANT651H, 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: [ANTB14H & ANT215H] or permission of the instructor

ANTC63H3 The Anthropology of Food: Human Needs
This course examines the historical and continuing relationship of humans to their food sources. We investigate changes in diet over millennia as humans moved from gather-hunters to domesticates of food sources. Topics to be discussed include human dietary needs, the plant base, malnutrition and its consequences.
Science credit.
Prerequisite: [ANTA01H & ANTA02H], plus one other full credit at B- or C-level in Anthropology

ANTC64H3 The Anthropology of Food: Consuming Passions
This course examines the social significance of food and foodways from the perspective of cultural anthropology. We explore the beliefs and behaviors 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: [ANTA01H & ANTA02H], plus one full credit at B- or C-level in Anthropology

ANTC66H3 An Introduction to Pacific Island Societies
Introduces the cultures and peoples of the Polynesian region. Focuses on 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: [ANTA01H & ANTA02H]. ANT219H & ANT220H recommended

ANTC68H3 Anthropology of Tourism
This course explores the global cultural phenomena 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.
Limited enrolment: 40
Prerequisite: [ANTA01H & ANTA02H] & at least two B-level courses in Anthropology.
ANTC6713 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 control, analysis of data, and the investigation of epidemics.
Science credit.
Prerequisite: [Any B-level course in Anthropology or Biology] & any statistics course.

ANTC5813 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] & any statistics course.

ANTD0193 The Body in Culture and Society
An ethnographic inquiry into the culturally configured human body as a resource of experiential knowledge, focus of symbolism, and site of social, moral, and political control. Seminar.
Limited enrolment: 25.
Prerequisite: Two of the following: ANTC151H, ANTC101H, ANTC201H, ANTC315H, ANTC251H

ANTD1513 Frontiers of Anthropology
An advanced seminar course primarily for majors and specialists in anthropology. Topic to be announced. May be science credit depending on topic.
Prerequisite: Permission of the instructor.

ANTD1913 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: ANTC251H and one C-level full credit in Physical Anthropology.

ANTD1913 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: ANTC471H & ANTC481H

ANTD2213 Ethnomedicine
This seminar course focuses on the intersection of body, mind, and self in cross-cultural perspective. Particular attention will be paid to the analysis of symbols, ritual, and the meaning/fulness of bodily experience, to issues of gender and power, and to the healing process.
Limited enrolment: 20.
Prerequisite: ANTC611H or permission of instructor. ANTC251H & ANTC141H & ANTC151H are highly recommended.

ANTD2413 Theory and Methodology in Social/Cultural Anthropology
An overview of the history of ethnological thought. This course focuses on certain key theoretical debates which run through it and largely determine the "state of the art" today: Evolutionary, diffusionist, psychological, cross-cultural, functionalist, structuralist, and hermeneutical approaches will be considered through selected writings from such major figures as Tylor, Durkheim, Boas, Kroeber, Malinowsky, Radcliffe-Brown, and Levi-Strauss. An attempt will be made to understand these individuals in terms of the socio and intellectual climates in which they wrote.
Prerequisite: [ANTA011H & ANTA051H & ANTB101H & ANTB201H] or permission of the instructor.

ANTD2613 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 health risks associated zoos can present here in Canada. The course will incorporate both anthropological and epidemiological perspectives.
Science credit.
Prerequisite: ANTB141H & ANTB151H & HLTA011H & [ANTC251H or SOCB66H or STAB23H]

ANTD3113 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 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 & ANTA011H & ANTA051H & two full credits in Anthropology, one of which must be at the C-level.
Art History
See the Visual and Performing Arts section of this Calendar.

Arts Management
See the Visual and Performing Arts section of this Calendar.

Astronomy
(B.Sc.)

Faculty List
P. Arzowskowicz, M.Sc. (Warsaw University); Ph.D. (N. Copernicus Astron. Center, Polish Academy of Sciences), Professor
C.C. Dyer, B.Sc. (Bishop's), M.Sc.; Ph.D. (Toronto), Professor
J.P. Lowman, B.Sc. (Toronto), M.Sc., Ph.D. (York, Canada), Assistant Professor

Astronomy is at the same time one of the oldest and one of the most dynamic areas of science. It is basically the attempt to understand the environment in which humanity developed, from the solar system in which we find ourselves and the other objects, to the largest distance scales 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 quarter century has 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 further understanding. The last decade has witnessed an explosion in the number of known planets, with more than one 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 modem high energy physics into astronomy, with particularly interesting developments concerning ideas about the very first seconds in the evolution of our universe.

The full range of modern astronomical topics is covered in the introductory courses ASTA01H and ASTA02H. For students wishing to further study in astronomy, there are a number of 3-credit courses, which are integral components of a number of the Physical Sciences Specialist Programs. In addition, the course ASTB03H 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. Similarly, 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.

Science Engagement Courses
For science experiential learning through community outreach (SCB01H), classroom in-reach (SCB02H) and team research, please see the Science Engagement section of this Calendar.

MAJOR PROGRAM IN ASTROPHYSICS AND PHYSICS
See the Physics section of this Calendar for program requirements.

SPECIALIST PROGRAM IN NATURAL SCIENCES
See the Physical Sciences section of this Calendar for program requirements.

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

SPECIALIST PROGRAM IN PHYSICS AND ITS APPLICATIONS
See the Physics section of this Calendar for program requirements.

ASTA01H Introduction to Astronomy and Astrophysics I: The Sun and Planets
The solar neighborhood provides examples of astronomical bodies that can be studied by both ground-based and space vehicle-based observational instruments. The astronomical bodies studied range from cold and rocky planets and asteroids to extremely hot and massive bodies, eg, 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

ASTA02H3 Introduction to Astronomy and Astrophysics II: Beyond the Sun and Planets
This course uses the basis developed in ASTA01H to extend consideration to all stars, galaxies and the universe. The structure and evolution of stars and galaxies is considered, with our own galaxy, the Milky Way, providing the opportunity for detailed study of a well-observed system. Even this system challenges us with many unanswered questions, and the number of questions increases with further study of the universe and its large-scale character. Current models and methods of study of the universe will be considered. The course is suitable for both science and non-science students.
Exclusion: AST121H, AST201H
Prerequisite: ASTA01H
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.
Exclusion: AST210H
Prerequisite: 4.0 full credits

ASTB21H3 Solar System and Stellar Astrophysics
The application of physical principles to study the structure and evolution of astrophysical bodies, particularly planets and stars and their locale and motion in the universe.
The motion of these bodies can usually be described using Kepler's laws of planetary motion, which will be considered as a consequence of Newtonian gravitation's inverse square force law. The use of the Euler-Lagrange equations to describe such mechanical systems will be considered.
Exclusion: AST211H
Prerequisite: ASTA01H & ASTA02H & MATA36H & [MATA38H or MATA37H] & PHYA21H
Corequisite: MATH41H

ASTC01H3 Research Topics in Astronomy
An application of individual effort to reading and research on a topic of current interest.
The student will research on some topic of current interest in astrophysics and write a report ("mini-thesis") on his or her work. The student is expected to gain an appreciation of the current state of knowledge about a particular topic of astrophysical interest and to become familiar with the basic methods of research. The topic will be selected by one of the instructors in consultation with the student. The bibliography is dependent upon the topic selected.
Students are advised that they must obtain consent from the supervising instructor before registering for this course.
Exclusion: AST425H
Prerequisite: ASTA01H & ASTA02H & PHYB21H & permission of the instructor

ASTC22H3 Galactic and Extragalactic Astrophysics
The study of the structure of the Galaxy and other galaxies, and the place of galaxies, clusters of galaxies, and other large scale systems, in the Universe, using the principles of physics and mathematics.
Building on the knowledge of the structure of individual astrophysical bodies, their place in successively larger scale systems in the Universe, such as star clusters, galaxies, and clusters of galaxies, will be considered leading to the consideration of the Universe as a whole system. Questions concerning the possible origins of structure in the Universe, its final end-state, and related topics in cosmology will conclude the course.
Exclusion: AST222H
Prerequisite: ASTB21H & MATH41H
Corequisite: MATH42H

Biological Sciences (Life Sciences)
(B.Sc.)

Faculty List
J. W. Gard, B.A. (Mount Allison), Ph.D. (McGill), Professor Emeritus
C. Nielsen, B.Sc., Ph.D., D.Sc., (University College London), Professor Emeritus
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 Emeritus
A. H. Wetherley, B.Sc. (Sydney), M.Sc. (Tasmania), Ph.D. (Glasgow), 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
R. Boonstra, B.Sc. (Calgary), Ph.D. (British Columbia), Professor
I. R. Brown, B.Sc. (Carleton), Ph.D. (Texas), Professor
H. J. Kronacker, B.Sc. (Washington), Ph.D. (British Columbia), Professor
G. C. Vanderbergen, B.Sc., M.Sc. (Western Ontario), Ph.D. (Queen's), Professor
D. D. Williams, B.Sc. (North Wales), Dip. Ed. (Liverpool), M.Sc., Ph.D. (Waterloo), D.Sc. (Wales), Professor
M. C. D. Andrade, B.Sc. (Simon Fraser), M.Sc. (Toronto), Ph.D. (Cornell), Associate Professor
R. R. Fultheorpe, B.Sc., M.Sc., (Toronto), Ph.D. (Carleton), Associate Professor
R. E. Harrison, B.Sc. (Winnipeg), M.Sc. (Manitoba), Ph.D. (Toronto), Associate Professor
A. C. Mason, B.Sc. (Guelph), M.Sc., Ph.D. (Toronto), Associate Professor
S. G. Reid, B.Sc., Ph.D. (Ottawa), Associate Professor
C. D. Riggs, B.Sc. (North Carolina), Ph.D. (Florida State), Associate Professor
M. M. Arts, B.Sc., M.Sc. (Western), Ph.D. (McGill), Assistant Professor
M. W. Cadotte, B.Sc., M.Sc.(Windsor), Ph.D. (Tennessee), Assistant Professor
M. J. Fitzpatrick, B.Sc., M.Sc., (Brock), Ph.D. (Toronto), Assistant Professor
S. Giavarini, B.Sc., M.Sc. (Milano), Ph.D. (Tubingem), Assistant Professor
N. R. Lovsey, B.Sc., M.Sc. (Toronto), Ph.D. (Cornell), Assistant Professor
L. L. Manne, B.Sc. (Ottawa College), M.Sc., Ph.D. (University of Tennessee), Assistant Professor
J. E. Nash, B.Sc. (Ottawa), M.Sc., Ph.D. (Manchester), Assistant Professor
M. R. Tureblikis, B.Sc., B.C. (Cuba), Assistant Professor
R. Zhao, B.Sc. (Peking University), Ph.D. (Chinese Academy of Agricultural Sciences), Assistant Professor
T. Gia, B.Sc., M.Sc. (Toronto), Ph.D. (Texas), Lecturer
K. S. Perazzol, B.Sc. (Toronto), B.Ed. (Western Ontario), Ph.D. (McMaster), Lecturer

Associate Chair: S. Reid. Email: ajoy@studnet.acm.ca

Five Specialist Programs are offered in Biology; these include Conservation Biology, Human Biology, Cell and Molecular Biology (and/or without Co-op), and Integrative Biology. A Major Program in Integrative Biology and a Minor in Biology are also available. Except for the Minor Program, all of our programs require students to take a core program of Biology courses from the major discipline(s) in Biology. In the Conservation Biology Program, students are exposed to the theory and practice of conserving species and their habitats. The Cell and Molecular Biology Program provides students with a comprehensive understanding of cellular and sub-cellular mechanisms underlying cellular processes. The Human Biology Specialist program emphasizes human biology and introduces students to the human body. The Integrative Biology Specialist Program approaches questions about the natural world from a variety of perspectives, with course work in a range of disciplines. The Integrative Biology Major Program combines studies in Biology with studies of another discipline. 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.

In addition to programs in Biology, two Joint Specialist Programs with Centennial College exist in Industrial Microbiology and Paramecology. These programs combine a selection of University courses with practical Industrial Microbiology or Paramecology courses at Centennial College.

Courses in Neuroscience and Environmental Science

The Neuroscience and Environmental Science courses are designed to provide students with a comprehensive understanding of the neural and environmental systems that regulate behavior and function. This program emphasizes the integration of knowledge from several disciplines, including psychology, biology, and neuroscience.

Science Engagement Courses

For science experiential learning through community outreach (SCIB20H), classroom in-reach (SCIB20H) and team research, please see the Science Engagement section of this Calendar.

Admissions

Biology Programs

All programs in Biology, except the Minor Program, have enrollment limits. Students apply to one or more Biology programs after completing a minimum of 6.0 units credits, including 1.0 credit in Biology, 1.0 credit in Chemistry, and 0.5 credit in Mathematics or Statistics (with the exception of the Conservation Biology Program which does not have the Math or Statistics requirement for admission). Admission is based on cumulative grade point average with a 2.8 or greater GPA guaranteeing admission. Students with a GPA lower than 2.8 but greater than 2.0 will be admitted to the extent that laboratory course spaces are available. The minimum GPA used to admit students will be determined in May (after the Winter Session) and August (after the Summer Session). Application for admission is made to the Registrar through IROS, in April/May and July/August. See the UTSC Registrar’s website for information on program Subject POSt selection at: www.utsc.utoronto.ca/subjectspo.

Pre-Program Supervision

Biological Sciences has a Pre-Program Supervisor on staff to advise students who have not yet chosen a program (typically 1st year students) on degree and program-related matters. Please contact Sean Ramnathan at ramnathan@studnet.utoronto.ca. Room 5W421D or 416-287-7404 if you have questions of this nature.

Biology courses

Prior to the beginning of the Fall/Winter term, the courses will be restricted to students by the third week of the registration period.
SPECIALIST PROGRAM IN CELL AND MOLECULAR BIOLOGY

Program Requirements
This Program consists of 14.5 required full credits. Please note 20 credits are required to complete an Honours Degree. Students in this Program MUST take CHMA11H, CHMA11H during the first year, and CHMB41H, CHMB42H and BGYB12H during the second year to stream properly through the Program. The required credits are:

1. 4.0 credits consisting of the core curriculum components: BGYA01H, BGYA02H, BGYB10H, BGYB11H, BGYB30H, BGYA31H, BGYB33H, BGYB35H;
2. 0.5 credit in BGYB12H;
3. 3.5 credits in essential concepts courses: BGYC12H, BGYC13H, BGYC15H, BGYC17H, BGYC23H, BGYD21H, and [BGYD95H or BGYD96H or BGYD97H or BGYD98H or BGYD22H or BGYD23H or BGYD24H or BGYD25H or BGYD26H];
4. 0.5 credit from among the following Cell and Molecular Biology courses: BGYC19H, BGYC21H, BGYC23H, BGYC28H, BGYC91H, BGYD57H, BGYD79H & (NROC35H); or BGYD17H or BGYD22H or BGYD23H or BGYD25H or BGYD27H;
5. 2.0 credits in Chemistry: CHMA10H, CHMA11H, CHMB41H, CHMB42H;
6. 1.0 credit in Physics: [PHYA10H or PHYA11H] & [PHYA21H or PHYA22H];
7. 1.0 credit in Mathematics: [MATA20H & MATA21H] or [MATA20H & MATA30H or MATA31H];
8. 1.0 credit from the courses listed by the Departments of Humanities, Management or Social Sciences.
9. 0.5 credit in CSCA20H;
10. 0.5 credit in Statistics: STAB22H or PSYB07H

All students would be well advised to take all core B-level Biology courses by the end of their second academic year to avoid timetable conflicts that may cause delays in degree completion.

Suggested Course Sequence
Year 1: BGYA01H, BGYA02H, CHMA10H, CHMA11H, [PHYA10H or PHYA11H], [PHYA21H or PHYA22H]. 1.0 credit of required calculus courses, plus 1.0 credit of courses for item 8 or unspecified electives.
Year 2: BGYB30H, BGYB31H, BGYB32H, BGYB33H, BGYB35H, BGYB36H, CHMB41H, CHMB42H & [STAB22H or PSYB07H]
Year 3: BGYC12H, BGYC13H, BGYC15H, BGYC17H, BGYC23H, plus 2.5 additional credits of required courses for Item 4 or Item 8 or Item 9 or unspecified electives.
Year 4: BGYD21H plus 0.5 credit of Item 3 plus 4 additional credits of required courses for Item 4 or Item 8 or Item 9 or unspecified electives.

*Students must follow two of two calculus streams:
1. Students with high school calculus may take either [MATA30H & [MATA35H or MATA36H] or [MATA20H & MATA21H]
2. Students without high school calculus must take MATA20H & MATA21H

Note: MATA20H & MATA21H are not prerequisites for second year math courses.

SPECIALIST (CO-OPERATIVE) PROGRAM IN CELL AND MOLECULAR BIOLOGY

Program Admission
Prospective applicants: For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post-secondary institution, see the Co-operative Programs section in this Calendar. Current U of T Scarborough students: Application procedures can be found at the Registrar’s Office website: www.utc.utoronto.ca/register. The minimum qualifications for entry are 5.0 credits including BGYA01H, BGYA02H, CHMA10H, CHMA11H, [MATA20H & MATA21H] or [MATA20H & MATA30H or MATA31H], [PHYA10H or PHYA11H], [PHYA21H or PHYA22H] plus a cumulative GPA of at least 2.75.
Program Requirements

This Program consists of 14.5 required credits. Please note 20 credits are required to complete an Honours Degree. Students in this Program MUST take CHMA11H, CHMA11H during the first year and CHMB11H, CHMB11H, and CHBY11H during the second year to stream properly through the Program. The required credits are:

1. 4.0 credits consisting of the core curriculum components: BGYA01H, BGYA02H, BGYB10H, BGYB11H, BGYB10H, BGYB11H, BGYB10H, BGYB11H, BGYB10H, BGYB11H;
2. 0.5 credit in BGYB12H;
3. 3.5 credits in essential concepts courses: BGYC12H, BGYC13H, BGYC14H, BGYC15H, BGYC16H, BGYC23H, BGYC23H, BGYD11H and [BGYD91H or BGYD99H or BGYD93H or BGYD12H or BGYD12H or BGYD12H or BGYD12H or BGYD23H];
4. 0.5 credit from among the following Cell and Molecular Biology courses: BGYC19H, BGYC21H, BGYC22H, BGYC29H, BGYC31H, BGYC31H, BGYD17H & NROC11H, or BGYD31H or BGYD23H or BGYD23H or BGYD23H or BGYD23H if not used in item 3 above;
5. 2.0 credits in Chemistry: CHMA10H, CHMA11H, CHMB11H, CHMB41H, CHMB42H;
6. 1.0 credit in Physics: [PHYA10H or PHYA11H] & [PHYA21H or PHYA22H];
7. 1.0 credit in Mathematics: [MATA20H & MATA21H] or [MATA20H & MATA25H] or [MATA20H & MATA25H];
8. 1.0 credit from the courses listed by the Departments of Humanities, Management or Social Sciences;
9. 0.5 credit in CSCA20H;
10. 0.5 credit in Statistics: STAB22H or PSYB07H

All students would be well advised to take all core B-level Biology courses by the end of their second academic year to avoid timetable conflicts that may cause delays in degree completion.

Suggested Course Sequence

Year 1: BGYA01H, BGYA02H, CHMA10H, CHMA11H, [PHYA10H & PHYA11H], [PHYA21H or PHYA22H];
Year 3: BGYC12H, BGYC13H, BGYC14H, BGYC39H, BGYC39H plus 2.5 additional credits of required courses for items 4 or item 8 or item 9 or unspecified electives.
Year 4: BGYD21H plus 0.5 credit from items 3 plus 4 additional credits of required courses for item 4 or item 8 or item 9 or unspecified electives.

*Students must follow one of two calculus streams:
1. Students with a high school calculus may take either (METAREH & METAREH) or (METAREH & MATA21H)
2. Students without a high school calculus may take MATA20H.

Note: MATA20H & MATA21H are not prerequisites for second year math courses.

Work Terms

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

To be eligible for their first work term, students must be in good standing in the program and have completed at least 10.0 credits, including BGYA01H, BGYA02H, CHMA10H, CHMA11H, [MATA20H & MATA21H] or [MATA20H & MATA25H] or [MATA30H & MATA31H], [PHYA10H or PHYA11H], BGYB10H, BGYB11H, BGYB39H, CHMB41H, and the non-credit Co-op Work Term Preparation course.

In order to be eligible for their second work term placement, students must have completed at least 12.5 credits which must include [BGYC12H or BGYC13H] or [BGYC39H & BGYC39H] and have received a satisfactory evaluation for their performance and for their reports on their first work term. Completion of Statistics and Computer Science course work, before the second placement, is highly recommended.

SPECIALIST PROGRAM IN CONSERVATION BIOLOGY

Supervisor: L. mane E-mail: conservation-biology@utoronto.ca

This program aims to prepare students to become practitioners in conservation biology. This program is built primarily from the Biological Sciences and Earth & Environmental Science departments, with additional courses from Chemistry, Geography, and Statistics, for a total of 14.5 credits. Please note 20 credits are required to complete an Honours Degree. Below is a list of required and elective courses, following that is a recommended course sequence. Students would be well advised to follow the recommended course sequence to ensure proper streaming through the program, and to prevent timetable conflicts that could delay graduation.
Program Requirements

Required courses: 14.5 credits

1. 4.5 credits consisting of the core curriculum components: BGYA01H, BGYA02H, BGYB01H, BGYB11H, BGYB30H, BGYB31H, BGYB55H, BGYB56H, BGYB57H, BGYB58H, BGYB59H
2. 3.0 credits in essential concepts courses: BGYC58H, BGYC59H, BGYC60H, BGYC61H, BGYC63H, BGYC64H
3. 2.0 credits from among the following Practical Field Conservation or Basic Ecology courses: BGYC51H, BGYC52H, BGYC53H, BGYC54H, BGYC57H, BGYC58H, BGYC67H, BGYD53H, BGYD51H, BGYD52H
4. 0.5 credit from among the following Impact Assessment/Monitoring/Data Analysis courses: BGYC65H, EESC63H, EESC63H, EESC64H, EESC65H
5. 0.5 credit from among the following Social Issues/Sustainability courses: GGBR20H, IDSBR2H, POLBR9H, SOCC57H
6. 1.0 credit in CHMA10H, CHMA11H
7. 1.5 credits from among the following Environmental Science courses: EESA06H, EESC04H, GGRA02H, GGRB30H
8. 1.0 credit in STAB22H, STAB27H
9. 0.5 credit in CSCA20H

Note: Some courses in bins 3-5 above require pre requisites that are not included in the Conservation Biology Program.

Suggested Course Sequence

Year 1: BGYA01H, BGYA02H, CHMA10H, CHMA11H, EESA06H, GGRA02H, GGRB30H
Year 2: BGYB11H, BGYB30H, BGYB31H, BGYB55H, BGYB56H, STAB22H, STAB27H
Year 3: BGYC51H, BGYC52H, BGYD53H, EESC64H plus 1.0 credit from bins 3, 4 or 5 above
Year 4: BGYC58H, BGYD60H plus 2.0 credits from bins 3, 4, or 5 above

CSCA20H can be taken in any year.

SPECIALIST (CO-OPERATIVE) PROGRAM IN CONSERVATION BIOLOGY

This program is under review and enrollment in it has been suspended indefinitely. Students currently enrolled in the program will be able to complete it. Note: These students may include BGYC51H (Topical Marine Ecology & Evolution) as an option in Requirement 7 (Practical Field Conservation or Basic Ecology courses).

SPECIALIST PROGRAM IN HUMAN BIOLOGY

Supervisor: K. Pennal. Email: human-biology@utsc.utoronto.ca

Program Requirements

This Program consists of 15.0 required credits. Please note 20 credits are required to complete an Honours Degree. Students must take CHMA10H and CHMA11H during the first year. The specific Program requirements are:

1. 5.0 credits consisting of the core curriculum components in biology: BGYA01H, BGYA02H, BGYB11H, BGYB12H, BGYB31H, BGYB55H & BGYB56H
2. 2.5 credits in C-level biology courses from amongst the following: BGYC22H, BGYC23H, BGYC24H, BGYC31H, BGYC32H, BGYC33H, BGYC34H, BGYC35H, BGYC36H, BGYC37H, BGYC38H, BGYC39H, BGYC40H, BGYC41H, BGYC42H
3. 0.5 credit in a D-level biology course: BGYD37H, BGYD53H, STAB22H, STAB27H, BGYD51H, BGYD52H
4. 1.0 credit in PSYA01H and PSY02H
5. 0.5 credit in NROB08H
6. 2.0 credits in CHMA10H, CHMA11H, CHMB41H and CHMB42H
7. 1.0 credit in [PHYA10H or PHYA11H] & [PHYA21H or PHYA22H]
8. 1.0 credit in [MATB20H & MATB21H] or [MATB30H & MATB31H]
9. 1.0 credit from any B-, C-, or D-level psychology course.
10. 0.5 credit in Health Studies: HLT41H, BGYC51H, IDSBR2H, ANTSB6H, ANTS16H, ANTS26H, ANTS36H, POLC55H

All students would be well advised to take all core C-level courses before entering C-level Biology courses in order to avoid timetable conflicts that may cause delays in degree completion.

Suggested Course Sequence

Year 1: (5 credits of required courses) BGYA01H, BGYA02H, CHMA10H, CHMA11H, [PHYA10H & PHYA11H], [PHYA21H or PHYA22H], PSYA01H, PSYA02H, required calculus courses*
Year 2: (5 credits of required courses) CHMB41H, CHMB42H, BGYB11H, BGYB12H, BGYB31H, BGYB32H, BGYB33H, BGYB51H, BGYB52H
Year 3 & 4: C- & D-level Biology courses, NROB08H and courses in requirements 9 and 10.

*Students must follow one of the two calculus streams:
1. Students with high school calculus may take either [MATB20H & MATB21H] or [MATB30H & MATB31H]
2. Students without high school calculus must take MATA20H & MATA21H

Note: MATA20H & MATA21H are not prerequisites for second year math courses.
SPECIALIST PROGRAM IN INTEGRATIVE BIOLOGY

Program Requirements
This Program consists of 14 required credits. Please note 20 credits are required to complete an Honours Degree. The specific program requirements are:

1. 4.0 credits consisting of the core curriculum components: BGYA01H, BGYA02H, BGYB10H, BGYB11H, BGYB30H, BGYB31H, BGYB50H, BGYB51H;
2. 0.5 credit from among the four core labs: BGYB12H, BGYB32H, BGYB33H or BGYB52H;
3. 0.5 credit from the offerings in Structure and Diversity: BGYC37H, BGYC38H, BGYC22H, BGYC29H, BGYC57H, BGYC58H, BGYD32H, BGYD52H, EESC301H or EESC501H;
4. 0.5 credit from the offerings in Plant Biology: BGYC29H, BGYC31H, BGYC37H, BGYC55H, BGYC61H or BGYD37H;
5. 4.0 credits of additional C- or D-level Biology courses with at least 0.5 of these credits from the D-level;
6. 1.0 credit in CHMA10H or CHMA11H;
7. 0.5 credit in PHYA10H or PHYA11H;
8. 1.0 credit in [MATA30H & MATA21H] or [MATA30H & MATA35H or MATA36H];
9. 1.0 credit from the courses listed by the Departments of Humanities, Management or Social Sciences;
10. 0.5 credit in CSCA20H;
11. 0.5 credit in STAB22H or PSYB07H

All students would be well advised to take all core B-level courses before entering C-level Biology courses in order to avoid timetable conflicts that may cause delays in degree completion.

Suggested Course Sequence
Year 1: BGYA01H, BGYA02H, CHMA10H, CHMA11H, [PHYA10H or PHYA11H] & the required calculus courses*
Year 2: BGYB10H, BGYB11H, BGYB32H, BGYB33H, BGYB50H, BGYB51H, [BGYB12H or BGYB32H or BGYD32H or BGYB53H] & STAB22H or PSYB07H
Year 3 & 4: 0.5 credit of the courses designated as Structure and Diversity offerings and 0.5 credit of the courses designated as Plant Biology offerings and 4.0 credits of additional Biology courses and 1.0 credit from the courses listed by the Departments of Humanities, Management or Social Sciences and 0.5 credit of CSCA20H. (Note: It is likely that these last 2 requirements could be just as easily fulfilled in any year of your program).

*Students must follow one of two calculus streams:
1. Students with high school calculus may take either [MATA30H & MATA35H or MATA36H] or [MATA20H & MATA21H]
2. Students without high school calculus must take MATA20H & MATA21H.

Note: MATA20H & MATA21H are not prerequisites for second year math courses.

MAJOR PROGRAM IN INTEGRATIVE BIOLOGY

Program Requirements
This Program consists of 8 required credits. Please note 20 credits are required to complete an Honours Degree.

1. 4.0 credits consisting of the core curriculum components: BGYA01H, BGYA02H, BGYB10H, BGYB11H, BGYB30H, BGYB31H, BGYB50H, BGYB51H;
2. 0.5 credit from among the four core labs: BGYB12H, BGYB32H, BGYB33H or BGYB52H;
3. 0.5 credit from the offerings in Structure and Diversity: BGYC37H, BGYC38H, BGYC22H, BGYC29H, BGYC57H, BGYC58H, BGYD32H, BGYD52H, EESC301H or EESC501H;
4. 1.5 additional credits in Biology;
5. 1.0 credit in CHMA10H & CHMA11H;
6. 0.5 credit from MATA21H or MATA30H or STAB22H or PSYB07H

All students would be well advised to take all core B-level courses before entering C-level Biology courses in order to avoid timetable conflicts that may cause delays in degree completion.

Suggested Course Sequence
Year 1: BGYA01H, BGYA02H, CHMA10H, CHMA11H & [MATA20H or MATA30H or STAB22H or PSYB07H]
Year 2: BGYB10H, BGYB11H, BGYB30H, BGYB31H, BGYB50H, BGYB51H & [BGYB12H or BGYB32H or BGYB33H or BGYD52H]
Year 3 & 4: 0.5 credit of the courses designated as Structure and Diversity offerings and 1.5 credits of additional Biology courses.
MINOR PROGRAM IN BIOLOGY
Supervisor: K. Fournel. Email: integrative-biology@atn.toronto.ca

Program Requirements
This Program must include BGYA01H & BGYA02H plus 3.0 full credits in Biology. At least 1.0 must be at the C- or D-level.

SPECIALIST (JOINT) PROGRAM IN INDUSTRIAL MICROBIOLOGY
See the Industrial Microbiology section of this Calendar for program requirements.

SPECIALIST (JOINT) PROGRAM IN PARAMEDICINE
See the Paramedicine section of this Calendar for program requirements.

Other Programs with Biology content
Courses in Biology can also be used to fulfill some requirements in the following programs: Biochemistry, Biological Chemistry, Environmental Science, Health Studies, Natural Sciences and Neuroscience. Please see the detailed program descriptions in this calendar.

BGYA01H Introductory Biology: Part I
A lecture and laboratory course providing an overview of biological processes at the cellular level. Topics include cell structure, DNA replication, transcription, translation, cell division and inheritance, bioenergetics and enzymes, metabolism and transport processes, and aspects of plant cell structure and function; the diversity of life is emphasized throughout.

Note that both BGYA01H and BGYA02H must be completed prior to taking any other Biology course. The suggested course sequence is BGYA01H followed by BGYA02H, but taking these courses in either order is acceptable.

BGYA02H Introductory Biology: Part II
A lecture and laboratory course providing an overview of animal physiology, ecology and evolution; physiological adaptations to environmental problems; interaction of organisms with each other and the environment in an evolutionary context; adaptation and speciation.

Note that both BGYA01H and BGYA02H must be completed prior to taking any other Biology course. The suggested course sequence is BGYA01H followed by BGYA02H, but taking these courses in either order is acceptable.

Exclusion: BIO150Y

BGVB10H3 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 cellular interactions with the environment.

Exclusion: BGYB10Y, BIO241H1, (BIO250Y)
Prerequisite: BGYA01H & BGYA02H & CHMA10H1 & CHMA11H

BGVB10Y3 Cell Biology and Molecular Aspects of Genetic Processes
A course designed to introduce theory and modern experimental techniques in cell and molecular genetics. Emphasis will be on eukaryotic cells. First half topics include: Structure and function of major animal and plant organelles, the role of the cytoskeleton, the role of the plasma membrane and extracellular matrix in the context of cellular interactions with the environment. In the second half of the course topics will include structure and function of the nucleus, DNA replication and cell cycle control, transcription and translation, gene regulation, signal transduction and basic aspects of immunology. Please note this course contains the content of both BGVB10H3 and BGVB11H.

Exclusions: BGVB10H, BGVB11H, BIO240H1, BIO241H1, (BIO250Y)
Prerequisite: BGYA01H & BGYA02H & CHMA10H1 & CHMA11H

BGVB11H3 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.

Exclusions: BGYB10Y, BIO240H1, (BIO250Y)
Prerequisite: BGVB10H
BGYB12H3 Cell and Molecular Biology Laboratory
A practical introduction to experimentation in cell and molecular biology. Six 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.

Limited enrolment: This course is restricted to students enrolled in the Specialist Programs in Cell and Molecular Biology (Co-op and non-Co-op), Specialist Program in Biomedical Chemistry or the Major Program in Biochemistry. Additional students will be admitted only if space permits.

Exclusion: BGYB12H3
Prerequisites: CIMA100H & CIMA11H
Corequisite: BGYB11H or BGYB10V

BGYE20H1 Mammalian Physiology I
A core animal physiology course covering the regulatory mechanisms which control and co-ordinate the functioning of the body such as nerve action potentials, synaptic transmission, muscle contraction, neuromuscular systems, sensory receptors, and hormonal action.

Prerequisites: BGYA01H & BGYA02H

BGYE31H3 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.

Exclusion: BGYE25Y1, (BGTE25Y1)
Prerequisites: BGYA01H & BGYA02H

BGYB23H3 Animal Physiology Laboratory
A laboratory course examining the mechanisms that control and co-ordinate functioning of the body. Laboratory exercises examine aspects of action potentials, synaptic transmission, contraction of striated muscle, heart rhythmicity, locomotion, digestion, excretion, and the effect of exercise on metabolism. Abstracts, lab reports, tests and a formal examination are required.

Exclusion: BGYE25Y2, (ZOO25Z1)
Corequisite: BGYB30H1

BGYB33H3 Human Development and Anatomy
A lecture and laboratory course which deals with the functional morphology of the human organism. The subject matter extends from early embryo-genesis through puberty to late adult life. Priority will be given to students in the Human Biology and Paramedicine programs. Additional students will be admitted only if space permits.

Exclusion: ANA300Y, ANA301H
Prerequisites: BGYA01H & BGYA02H

BGYB50H3 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.

Prerequisites: BGYA01H & BGYA02H

BGYB51H3 Evolutionary Biology
Students learn about development of evolutionary theory, maintenance of genetic variation, mechanisms of evolutionary change; adaptation, and current research topics in evolution.

Prerequisites: BGYA01H & BGYA02H

BGYB52H3 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.

Prerequisites: BGYA01H & BGYA02H
Corequisite: BGYB51H

BGYC12H3 Biochemistry I: Proteins & Enzymes
A lecture course describing factors involved in determining protein structure and the relationships between protein structure and function.

Topics will include: amino acid, the primary, secondary, tertiary and quaternary structures of proteins, protein motifs and protein domains; glycoproteins; classical enzyme kinetics and allosteric enzymes; mechanisms of enzyme action.

Exclusions: Bcheid101H, BCH242Y, BCH331H
Prerequisites: [BGYB101H & BGYB11H] or BGYB10V & CIBA831H & CIBA832H

BGYC13H3 Biochemistry II: Bioenergetics and Metabolism
A lecture course that introduces cellular metabolism, the process by which living organisms extract and utilise 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.

Exclusions: BCH2101H, BCH242Y, BCH31H
Prerequisites: [BGYB101H & BGYB11H] or BGYB10V & CIBA831H & CIBA832H

BGYD15H3 Genetics
Topics for this lecture and laboratory course include: a brief review of transcription, translation, and molecular techniques; inheritance and its chromosomal basis; gene interactions; quantitative genetics; sources and types of mutations and the relationship of mutation to genetic disease and evolution; and genomics.

Exclusions: BGYG01H, HUMB45YH
Prerequisites: [BGYB101H & BGYB11H] or BGYB10V & [MATA21H or MATA35H or MATA36H or MATA37H or PSA25H or STA23H]
BGYC16H3 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: BGYB31H & BGYC15H

BGYC17H3 Microbiology: The Bacterial Cell
This course describes bacterial cells and viruses and their roles in infectious disease, in the environment, and as paradigms for cell and molecular biology. The laboratories illustrate principles and provide training in basic microbiological techniques essential to microbiology and to any field where recombinant DNA technology is used. Exclusion: MYS377H, SBY377H
Prerequisite: [[BGYB10H8 & BGYB11H8] or BGYB10Y] or [BGYB50H & BGYB51H] or [one of BGYB12H or BGYB12H or BGYB13H or BGYB52H]

BGYC19H3 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: [BGYB10H8 & BGYB11H8] or BGYB10Y

BGYC21H3 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. Exclusion: ANA309Y
Prerequisite: [BGYB10H8 & BGYB11H8] or BGYB10Y or [BGYB30H & BGYB31H]

BGYC22H3 Vertebrate Histology: Organs
The histological structure of the major organ systems of the vertebrate body: sense, integument, digestive, respiratory, excretory, reproductive. Particular emphasis is placed on functional morphology. Exclusion: ANA309Y
Prerequisite: BGYC21H

BGYC23H3 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, radiotopes, enzyme assay and protein purification. Students will be expected to solve numerical problems involving these and related procedures. Exclusion: BCD370H, BGY371H
Prerequisite: BGYB12H & BGYC12H Corequisite: BGYC11H

BGYC31H3 Molecular Aspects of Plant Development
A lecture course focused on molecular mechanisms of plant development covering a range of subjects including but not limited to: Embryogenesis, seed development and germination. Plant hormones: hormone perception, signal transduction pathways and mutant analysis. Molecular control of vegetative development: meristem identity, function and regulation. Flowering time: the floral model and homoeotic mutations. Exclusion: CSB340H, BGY340H
Prerequisite: [BGYB10H8 & BGYB11H8] or BGYB10Y & BGYB51H

BGYC32H3 Mammalian 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 and 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. Limited enrolment: Priority will be given to students enrolled in the Human Biology and Paramedicine Programs. Additional students will be admitted only if space permits. Exclusion: BGYC34H, PSL301Y, PSL301H, PSL301H, PSL302Y
Prerequisite: BGYB30H & BGYB33H

BGYC34H3 Mammalian Physiology II: Lecture
The lecture component of BGYC34H is identical to that described above for BGYC33H. Students will complete a series of computer-simulated laboratory exercises (on their own time) instead of practical lab sessions. Exclusion: BGYC33H, PSL301Y, PSL301H, PSL301H, PSL302Y
Prerequisite: BGYB30H

BGYC35H3 Tropical Marine Ecology and Evolution
A field-based course with 5 lectures at UTSC and 1 week at Boca del Toro Marine Station in Panama. Ecological and evolutionary topics will be covered for coral reefs, eel grass, mangrove and open ocean habitats. Student will be evaluated for their ability to conduct research and convey scientific information. Limited enrolment: 15 Exclusion: BGYC35H
Prerequisite: BGYB50H, BGYB51H, BGYB52H & permission of instructor
Note: Interested students should contact the instructor (Professor N. Lovejoy) 9 months before the start of the course, and must be able to place a deposit towards the cost of airfare and accommodation.

BGYC52H3 Ecology Field Course
Coverage of basic principles and selected techniques of animal and plant ecology. Students will study a variety of techniques related to population ecology, community ecology, behavioural ecology, and physiological ecology. Both aquatic and terrestrial environments will be the "field" laboratories. Occasional weekend field trips are mandatory (e.g., Jokker Hill). Offered in alternate years. Limited enrolment: 15 Exclusion: EEB305H, BGY305H
Corequisite: BGYB50H & BGYB51H
BGYC53H3 Marine Biology
A field course on selected topics of marine biology with particular emphasis on tropical waters.
This course will be held during mid-February at a field station in the Caribbean and will have a considerable practical component. Prior to fieldwork, there will be a series of lectures at UTSC. On site, students will study three main habitat types: rocky shore, open ocean, and coral reef. In addition, students will work on individual field projects.
Limited enrolment: 15
Exclusion: EEB330H, (BIO330H1)
Prerequisite: [BGY50H1 & BGY51H1] or EESC304H1 & permission of instructor.
Note: As this course is ALWAYS oversubscribed, interested students must contact the instructor (Professor D.D. Williams) AT LEAST 9 MONTHS in advance of the start of the course for details and must, at that time, be prepared to place a deposit towards the cost of airfare and accommodation. Places are allocated on a first-come, first-served basis.

BGYC54H3 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.
Exclusion: EEB322H, (ZOO322H1)
Prerequisite: BGY50H1 & BGY51H1

BGYC57H3 Evolutionary and Applied Biology of Insects
An exploration of the origins of insects, their modern diversity, and their impact on mankind.
Coverage will begin by examining the evolutionary history of the group, which extends back over 400 million years, together with its diversity and morphology. This will be followed by consideration of those species which are important to mankind in terms of commerce, medicine (e.g., allergies, disease, and forensic sciences), and as competitors. The course will conclude with discussion of the pivotal role played by insects in world ecosystems.
Prerequisite: EESC304H1 or permission of instructor.

BGYC58H3 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.
Exclusion: EEB430H, GOR340L, (BIO428H)
Prerequisite: BGY50H1 & BGY51H1

BGYC59H3 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. Offered in alternate years.
Exclusion: EEB390H, (BIO390H)
Prerequisite: BGY50H1 & BGY51H1 & BGY52H1

BGYC60H3 Restoration Ecology
A lecture and tutorial course that introduces students to the principles and practice of restoring disturbed or damaged ecosystems. Knowledge from stress physiology and community ecology, and reviews of case studies in restoration ecology are combined to examine how compromised ecosystems can be restored. Students will have the opportunity to work in teams to design and present projects on the restoration of a variety of terrestrial and aquatic systems.
Prerequisite: BGY50H1 & BGY51H1

BGYC61H3 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.
Exclusion: EEB321H, (BIO321H1)
Prerequisite: BGY50H1 & BGY51H1

BGYC62H3 Role of Zoos in Conservation
A lecture course that examines the changing role of zoos through time, but emphasizing contemporary issues such as captive breeding and re-introduction of species versus new technologies to assist reproduction in wild populations; the importance of nutrition and behavioral enrichment in captive animals; zoos and public involvement/education; endangered species in Canada and habitat restoration. Priority will be given to students in the Specialist Program in Conservation Biology and Conservation Biology Co-op Program.
Limited enrolment: 50
Prerequisite: BGY50H1 & BGY51H1

BGYC63H3 Conservation Biology
A lecture and tutorial course on the scientific principles of biological conservation. Topics will include biodiversity, habitat loss and fragmentation, extinction rates, conservation planning, invasive species, and ecosystem services of diversity. Students will give one seminar and/or write one term paper.
Exclusion: EEB353H, (BIO356H1)
Prerequisite: BGY50H1 & BGY51H1
BGYCH5H3 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: BGYB10H1 & BGYB10H1 & CHMA10H1 & CHMA11H

BGYCH7H3 Advanced Field Course in Ecology
Inter-university selections from a variety of field courses offered by the Ontario Universities Program in Field Biology, a co-operative arrangement among universities in Ontario. Courses, of one or two weeks duration at a wide variety of field sites usually from late April through mid-September. A fee for room and board is charged over and above tuition. Lists of courses available are posted early in January. Sign-up is on a first-come, first-served basis. Students register in the fall after the course has been completed. See the U of T Scarborough co-ordinator, Professor N. Lovejoy for further details.
Prerequisite: BGYB50H1 & BGYB51H1 & permission of the instructor.

BGYD91Y3 Directed Research in Biology
BGYD92Y3 Directed Research in Biology
BGYD93H3 Supervised Study in Biology
These three courses have been recorded as BGYD98Y, BGYD99Y and BGYD99H, respectively. Descriptions of these courses are located at the end of the biology course list.

BGYD11H3 Seminars in Cellular Microbiology
An overview of the most significant advances in cellular microbiology. This course will include the study of mechanisms of bacterial pathogenesis, including virulence factors, bacteria attachment and invasion of mammalian cells. The cellular mechanisms involved in the recognition and elimination of pathogenic bacteria will be also studied.
Limited enrollment: 25
Prerequisite: BGYB10H1 & BGYC17H1

BGYD21H3 Molecular Biology Laboratory II: Host, Vectors and Cloning
Applications of molecular technology continue to revolutionise 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.
Limited enrollment: 24
*Priority will be given to students enrolled in the Specialist Programs in Cell and Molecular Biology (Co-op and non-Co-op). Additional students will be admitted only if space permits.
Prerequisite: BGYB21H1 & BGYC15H1 & [IMBC10H1 & IMBC20H1 (for Industrial Microbiology students only)]
Corequisite: BGYC12H1 (Note: Although listed as a corequisite, it is recommended that BGYC12H1 be taken in advance of BGYD21H1)

BGYD22H3 Molecular Biology Laboratory II: Nucleic Acids & Proteins
A laboratory course offering experience in a range of molecular technologies.
The course will be organized around a central theme, namely the expression of heat shock (stress) genes that encode proteins important in cellular repair and protective mechanisms.
Limited enrollment: 24
*Priority will be given to students enrolled in the Specialist Programs in Cell and Molecular Biology (Co-op and non-Co-op). Additional students will be admitted only if space permits.
Corequisite: BGYD21H1

BGYD23H3 Special Topics in Cell Biology and Molecular Genetics
A lecture/seminar/discussion class on contemporary topics in Cell Biology and Molecular Genetics.
Students will explore the primary literature becoming familiar with experimental design and methodologies used to decipher cellular biological phenomena. Student seminars will follow a series of lectures and guest speakers.
Limited enrollment: 24
Priority will be given to students enrolled in the Specialist Programs in Cell and Molecular Biology (Co-op and non-Co-op). Additional students will be admitted as space permits.
Prerequisite: BGYC15H1 & [BGYC12H1 or IMBC30H1 plus IMCC03H (for Industrial Microbiology students only)]

BGYD25H3 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, functional genomics, transcription profiling (microarrays), database mining and extensions to human and animal health and biotechnology.
Limited enrollment: 60
Prerequisite: BGYC15H1
Corequisite: BGYC13H1 Note: Although listed as a corequisite, it is recommended that BGYC13H1 be taken in advance of BGYD25H1.

BGYD27H3 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 physiological 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.
Limited enrollment: 30
Prerequisite: BGYC12H1 & [BGYC33H or BGYC34H]

BGYD33H3 Comparative Environmental Physiology
This course will focus on the comparative aspects of animal physiology and address how various physiological systems are specialized to meet many of the environmental challenges encountered by terrestrial and aquatic environments. Topics include breathing, cardiovascular physiology, nutrition/feeding, energetics, thermal regulation, hibernation and some/omotic regulation.
Prerequisite: BGYC33H or BGYC34H
BOGD37HS 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: pathogens; 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.
Limited enrolment: 35
Prerequisite: [([GBOB10H & GBOB11H] or [GBOB10Y] & [GBOB11H])

BOGD45HS Animal Communication
Behavioural ecology of signal evolution; decision-making and signal design; the physics and physiology of transmitting signals.
Prerequisite: [GBOB30H & GBOB50H & GBOB51H & GBOC54H]
Corequisite: [MAT12H or MAT15H or MAT158H or MAT37H]

BOGD51HS River Ecology
The course will begin with an introduction to stream hydrology and sediments, and the adaptations of plants and animals to life in a dynamic habitat. Later topics will cover micro- and macro-distribution of stream fauna and the problems of quantitatively sampling them; biotic interactions; community structure and stability; colonization patterns following disturbance; energy transformations; estimates of production; and man's effects on rivers. There is a considerable field and laboratory component which assesses the impact of human activity on three local rivers.
Limited enrolment: 20
Prerequisite: [GBOB50H & GBOB51H]

BOGD52HS Senior Seminar in Biodiversity and Conservation Biology
A senior-level seminar course to further students' exposure to biodiversity and conservation biology in scientific literature. Students will read assigned papers and then present them to the class and participate in discussions.
Limited enrolment: 30
Prerequisite: [GBOC56H]

BOGD53HS 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 qualitative and quantitative reasoning underlying behavioural ecological theory.
Limited enrolment: 30
Exclusion: [EBOB40Y, (BOBO40Y)]
Prerequisite: [GBOC54H]

BOGD60HS Landscape Ecology
The study of large-scale ecological patterns and processes, emphasis on when and how to integrate large-scale perspective into ecological questions. Topics include: species-terra relationships, island biogeography, metapopulation theory, individual-based models, cellular automata, models of biodiversity with applications to species viability, ecosystem management, design of nature reserves. Project and paper required.
Priority will be given to students enrolled in the Specialist Program in Conservation Biology.
Prerequisite: [GBOB50H & GBOB51H & STAB22H & STAB27H]

BOGD65HS Pathologies of the Nervous System
An intensive examination of selected pathologies affecting the nervous system such as Alzheimer and Parkinson disease, multiple sclerosis, stroke, and affective disorders. These pathologies will be examined from an integrative perspective encompassing the pathogenesis, resulting symptoms, and current therapeutic approaches. This course requires critical examination of research articles.
Limited enrolment: 30
Exclusion: (NROD56H)
Prerequisite: [GBOB10H or GBOB10Y] & [one of NROC61H or NROC64H or NROC99H]

BOGD69HS Supervised Study in Biology
This course is designed to permit intensive examination of the primary literature of a select topic. It is not intended as a substitute for required C/D-level coursework. 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 the biology office that is to be completed and signed by the intended supervisor, then returned to the biology office. At that time, the student will be provided with an outline of the schedule and general requirements for the course.
Exclusion: (BOGD03H)
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 BOGD59H, with the same instructor as for BOGD98Y or BOGD99Y, the student and instructor must provide a plan that goes beyond the work of these courses.

BOGD88Y3 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 the biology office that is to be completed and signed by the intended supervisor, and returned to the biology office. At this time, the student will be provided with an outline of the schedule and general requirements for the course.
Exclusion: [CSD040Y, EEB949Y, (BOGD01Y), (BOT460Y), (ZOO098Y)]
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.
BIOGY99Y3 Directed Research in Biology

Identical to BIOGY99Y1 but intended as a second research experience. In order to be eligible for BIOGY99Y1, with the same instructor, the student and the instructor will have to provide a plan of study that goes beyond the work of BIOGY99Y1.

Chemistry
(B.Sc.)

Faculty List
A.J. Kreige, B.A. (Cornell), Ph.D. (Illinois), F.R.S.C., Professor Emeritus
R.A. McClelland, B.Sc., Ph.D. (Toronto), Professor Emeritus
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
D. E. Curran, B.A., M.A. Sc. (Toronto), Ph.D (California Inst. of Tech.), Professor
D.J. Donaldson, B.Sc. (Carleton), Ph.D. (Carleton), Professor
S. Fraser, B.A. (Oxford), Ph.D. (Cambridge), Associate Professor
E. Wanis, B.A. (Bayreuth), Ph.D (Toronto), Associate Professor
K. Kerman, Ph.D. (Japan Advanced Institute of Science and Technology), Assistant Professor
A. Simpson, B.Sc., Ph.D. (Birmingham), Assistant Professor
W. Reitio, B.Sc. (Toronto), Senior Lecturer
L. Toh, B.Sc., B.Ed., (Singapore), Senior Lecturer
A. Verner, B.Sc. (St. Andrews), M.Sc., M.Eng. (Toronto), Senior Lecturer
S. Dalili, M.Sc., Ph.D. (Toronto), Lecturer
L. Milhavljichcheva, M.Sc., Ph.D. (Krasnodar, Russia), Lecturer
E. L. O. Sauro, B.Sc. (Toronto), Ph.D. (Ottawa), Lecturer

Co-ordinator of First Year Studies in Chemistry: A. Verner (416-287-7224). Email: verner@ats.uc.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 Life Sciences. The Chemistry Handbook, which is available on the Web, outlines the teaching and research activities of the Chemistry faculty and offers a wide range of informal advice on undergraduate activities.

The basic courses in chemistry are CHMA10H and CHMA11H which must be taken by those who wish to take further chemistry courses or who require chemistry for another science.

Completion of CHMA10H and CHMA11H permits students to take any of the B-level courses in Chemistry. 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 U of T Scarborough Courses
CHMA10H
CHMA11H
CHMB16H
CHMB111H & CHMC31Y

To Enter St. George Series 440 (except 447) Complete U of T Scarborough Courses
CHMA10H
CHMA11H
CHMB41H
CHMB42H
CHMC41H & CHMC42H

Note: Timetabling constraints usually preclude U of T Scarborough C-level and St. George 400-level courses being taken in the same year.
Guidelines for course selection

While courses in Physics do not appear among the prerequisites or co-requisites of most courses in Chemistry, students are urged to take [PHYA10H1 or PHYA11H1] & [PHYA21H1 or PHYA22H1] early in their Programs. Thus, the suggested first-year Program in Chemistry includes CHMA10H1, CHMA11H1, MATA30H1, MATA36H1 or MATA37H1, [PHYA10H1 or PHYA11H1] & [PHYA21H1 or PHYA22H1]. Students interested in Biological Chemistry or Biochemistry should also include BIOA40H1 & BIOA40H2.

Completion of one of the Specialist or Major Programs listed below can lead to a number of career opportunities in industry, research, teaching, and government. Students who are interested in these Programs are urged to consult with the supervisors early in their academic careers.

The Specialist Programs in Chemistry, Biological Chemistry and the Major Programs in Biochemistry and Chemistry are eligible for inclusion in the Co-operative Program in Physical Sciences and in the Concurrent Teacher Education Program (CTEP). Please refer to the Physical Sciences section, the Co-operative Programs section and the Concurrent Teacher Education section of this Calendar for further information.

Science Engagement Courses

For science experiential learning through community outreach (SCIB01H1), classroom in-reach (SCIB02H1) and team research, please see the Science Engagement section of this Calendar.

SPECIALIST PROGRAM IN BIOLOGICAL CHEMISTRY

Supervisor: W. Restivo (416-287-7220) Email: restivo@atc.toronto.utoronto.ca

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

Program Requirements

The program requires the completion of the following 15.0 full credits:

First Year:
- BGYA10H1 Introductory Biology: Part I
- BGYA12H1 Introductory Biology: Part II
- CHMA10H1 Introductory Chemistry I: Structure and Bonding
- CHMA11H1 Introductory Chemistry II: Reactions and Mechanisms
- MATA30H1 Calculus I
- [MATA35H1 Calculus II for Biological Sciences or
- MATA36H1 Calculus II for Physical Sciences, or
- MATA37H1 Calculus II for Mathematical Sciences]
- PHYA10H1 Introduction to Physics I
- [PHYA21H1 Introduction to Physics II, or
- PHYA22H1 Introduction to Physics III]

Note: MATB41H1 is a prerequisite for CHMB21H1 and MATA36H1; MATA37H1 is a prerequisite for MATB43H1. MATA36H1 MATA37H1 is strongly recommended over MATA35H1 in order that future course selection is not compromised.

Second Year:
- BGYB10H1 Cell Biology
- BGYB11H1 Molecular Aspects of Cellular and Genetic Processes
- BGYB12H1 Laboratory for Cell and Molecular Biology
- CHMB31H1 Introduction to Inorganic Chemistry
- CHMB41H1 Organic Chemistry I
- CHMB42H1 Organic Chemistry II

Second or Third Year:
- CHMB36H1 Techniques in Analytical Chemistry
- CHMB38H1 Chemical Thermodynamics and Elementary Kinetics
- CHMB21H1 Chemical Structure and Spectroscopy

Third Year:
- BGYC12H1 Biochemistry I: Proteins and Enzymes
- BGYC22H1 Biochemistry II: Bioenergetics and Metabolism
- BGYC23H1 Practical Approaches to Biochemistry
- CHMC47H1 Bio-Organoic Chemistry
Third or Fourth Year:
CHMC311H Principles of Analytical Instrumentation
CHMC313Y Intermediate Inorganic Chemistry
[CHMC411H Organic Reaction Mechanisms
or
CHMC421H Organic Synthesis]

Fourth Year:
PSCD020H Current Questions in Mathematics and Science
At least 0.5 credit from the following:
BGYD01Y Directed Research in Biology
BGYD02Y Directed Research in Biology
BGYD03H Supervised Study in Biology
CHMD90Y Directed Research
CHMD91H Directed Research
PSCD101H Physical Sciences Project

And, in appropriate years 1.0 full credit (1.5 if BGYD03H, CHMD91H or PSCD101H is taken) from the following list:
MATH411H Techniques of Calculus of Several Variables I
CHMB551H Environmental Chemistry
PSCB571H Introduction to Scientific Computing
Or any other C- and D-level Chemistry or PSC courses, and C- or D-level BGY courses for which {BGYB10H & BGYB11H} is a prerequisite.

SPECIALIST PROGRAM IN CHEMISTRY
Supervisor: S. Dalili (416-287-7215), Email: sdalili@utm.utoronto.ca
This Program is meant for students who are interested in obtaining a strong background in all aspects of modern chemistry.

Program Requirements
The Program requires completion of 14.0 full credits as follows:
First Year:
CHMA101H Introductory Chemistry I: Structure and Bonding
CHMA111H Introductory Chemistry II: Reactions and Mechanisms
MATA36H1 Calculus I
[MATA36H1 Calculus II for Physical Sciences
or
MATA37H1 Calculus II for Mathematical Sciences]
PHYA101H Introduction to Physics IA
[PHYA21H1 Introduction to Physics IA
or
PHYA22H1 Introduction to Physics IB]
and
1.0 full credit chosen from:
ASTA01H1 Introduction to Astronomy and Astrophysics I: The Sun and Planets
ASTA02H1 Introduction to Astronomy and Astrophysics II: Beyond the Sun and Planets
BGYA01H1 Introductory Biology: Part I
BGYA02H1 Introductory Biology: Part II
EESA05H1 Environmental Hazards
EESA06H1 Introduction to Planet Earth
MATA23H1 Linear Algebra I
PSCB57H1 Introduction to Scientific Computing
STAB22H1 Statistics I

Second Year:
CHMB21H1 Techniques in Analytical Chemistry
CHMB22H1 Chemical Thermodynamics and Elementary Kinetics
CHMB23H1 Chemical Structure and Spectroscopy
CHMB31H1 Introduction to Inorganic Chemistry
CHMB41H1 Organic Chemistry I
CHMB42H1 Organic Chemistry II
MATH411H Techniques of Calculus of Several Variables I

Third Year:
CHMC311H Principles of Analytical Instrumentation
CHMC16H Analytical Instrumentation
CHMC21H Topics in Biophysical Chemistry
CHMC31Y Intermediate Inorganic Chemistry
[CHMC41H Organic Reaction Mechanisms
or
CHMC42H Organic Synthesis]

Fourth Year:
PSCD02H Current Questions in Mathematics and Science
and
2.0 full credits chosen from:
CHMC47H Bio-Organic Chemistry
[CHMC42H Organic Synthesis
or
CHMC41H Organic Reaction Mechanisms]
Any D-level or 400-level CBM course.
Other D-level courses upon approval of Program Supervisor.
and
1.0 full credit chosen from:
CHMD90Y Directed Research
CHMD91H Directed Research
PSCD10H Physical Sciences Project

MAJOR PROGRAM IN CHEMISTRY
Supervisor: Until December: A. Verner
Email: verner@utsc.toronto.ca
From January: S. Mikhailychenko
Email: mikhailychenko@utsc.toronto.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 7.5 full credits:
First Year:
CHMA10H Introductory Chemistry I: Structure and Bonding
CHMA11H Introductory Chemistry II: Reactions and Mechanisms
MATA30H Calculus I
[MATA35H Calculus II for Biological Sciences
or
MATA36H Calculus II for Physical Sciences
or
MATA37H Calculus II for Mathematical Sciences]
[PYHA10H Introduction to Physics IA
or
PYHA11H Introduction to Physics IB]
[PYHA20H Introduction to Physics IIA
or
PYHA21H Introduction to Physics IIB]

Note: PYHA10H is not an acceptable substitute for [PYHA10H/PYHA11H & PYHA21H/PYHA22H]

Second and Later Years:
4.5 full credits in Chemistry, including at least one C-level half credit course with a laboratory.**

** Students should note that if they are going to select CHMB20H/CHMB21H, then MATA30H, MATA36H/MATA37H, PYHA10H & PYHA21H are prerequisites; if CHMC21H is chosen, CHMB20H, CHMB21H and MATH41H are prerequisites.
MAJOR PROGRAM IN BIOCHEMISTRY
Supervisor: L. Toor (416-287-7220) Email: ltoor@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 8.0 full credits:

First Year:
- BGYA1H1 Introductory Biology: Part I
- BGYA2H1 Introductory Biology: Part II
- CHMA1H1 Introductory Chemistry I: Structure and Bonding
- CHMA1H1 Introductory Chemistry II: Reactions and Mechanisms

Second and Later Years:
- BGYB1H1 Cell Biology
- BGYB1H1 Molecular Aspect of Cellular and Genetic Processes
- BGYB1H1 Cell & Molecular Biology/Laboratory
- BGYC1H1 Biochemistry I: Proteins & Enzymes
- BGYC1H1 Biochemistry II: Bioenergetics & Metabolism
- BGYC2H1 Practical Approaches to Biochemistry
- CHMB1H1 Techniques in Analytical Chemistry
- CHMB4H1 Organic Chemistry I
- CHMB4H1 Organic Chemistry II
- [CHMC4H1 Organic Reaction Mechanisms
- CHMC4H1 Organic Synthesis]
- CHMC4H1 Bi-Orgaen Chemistry

And 0.5 credit from the following:
- CHMB2H1 Chemical Thermodynamics and Elementary Kinetics
- CHMB2H1 Chemical Structure and Spectroscopy
- CHMB3H1 Introduction to Inorganic Chemistry
- CHMB5H1 Environmental Chemistry
- CHMC1H1 Principles of Analytical Instrumentation
- CHMC1H1 Analytical Instrumentation
- CHMC2H1 Topics in Biophysical Chemistry
- CHMC3H1 Intermediate Inorganic Chemistry
- [CHMC4H1 Organic Synthesis

or
- CHMC4H1 Organic Reaction Mechanisms]

* If CHMC2H1 is chosen, MATA3H0, MATA3H0, MATA3H0, MATA3H0, PHYA1H1 & PHYA2H1 are required.

SPECIALIST PROGRAM IN ENVIRONMENTAL CHEMISTRY
See the Environmental Science section of this Calendar for program requirements.

SPECIALIST PROGRAM IN NATURAL SCIENCES
See the Physical Sciences section of this Calendar for program requirements.

CHMA1H1 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 qualitative 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: CHM13H1, CHM13H1, CHM140Y, CHM151Y
Prerequisite: Grade 12 Chemistry & [Grade 12 Advanced Functions or Calculus]

Corquisite: None, but [MATA2H1 & MATA2H1] or [MATA3H0 & [MATA3H0 or MATA3H0 or MATA3H0]] are strongly recommended. [MATA3H0 & [MATA3H0 or MATA3H0 or MATA3H0]] are required for some higher level and other Physical and Environmental Sciences courses.
CHMA1H3 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 redox equilibria will be covered, and some reactions of organic molecules will be introduced.
This course includes a three-hour laboratory every other week.
Exclusion: CHM338H, CHM130H, CHM140Y, CHM131Y
Prerequisite: CHMA10H
Corequisite: Note: if [MATA20H & MATA21H] or [MATA30H & MATA31H or MATA37H] are strongly recommended. MATA30H & MATA31H or MATA37H are required for some higher level and other Physical and Environmental Sciences courses.

CHMB1H3 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 spectrochemical methods. This course includes a four-hour laboratory every week.
Exclusion: CHM221H
Prerequisite: CHMA10H & CHMA11H
Recommended: CHMB31H

CHMB20H3 Chemical Thermodynamics and Elementary Kinetics
The concept of chemical potential; phase equilibria; solutions; chemical equilibrium (including electrochemical applications); elementary reactions; multi-step and coupled reactions (with biochemical applications); elementary collision theory and TST.
Exclusion: CHM222H, CHM223H
Prerequisite: [CHMA10H & CHMA11H] & MATA30H & [MATA31H or MATA36H] & PHYA10H. Note that PHYA21H and MATH44H are prerequisites for the C- and physical chemistry courses.

CHMB21H3 Chemical Structure and Spectroscopy
Atomic structure and spectra; term symbols and their meaning; valence bond theory; LCAM-MO; molecular spectroscopy.
Exclusion: CHM222H, CHM225H
Prerequisite: CHMB20H. Note that this implies all the prerequisites for that course as well.

CHMB31H3 Introduction to Inorganic Chemistry
Fundamentals of coordination, solid state and descriptive inorganic Chemistry: Structures, bonding and reactivity of transition metal coordination compounds; solid state structures and energetics; selected chemistry of non-transition elements. Examples will be taken from environmentally and biologically important inorganic compounds.
Prerequisite: CHMA10H & CHMA11H

CHMB41H3 Organic Chemistry I
Chemical bonding and an introduction to aliphatic and aromatic compounds. Conformational analysis and stereochemistry. Free radical reactions of alkane. Chemistry of alkenes, dienes, and alkynes. Substitution and elimination reactions.
This course includes a four-hour laboratory every other week.
Exclusion: CHM130H, CHM131Y, CHM247H, CHM249H
Prerequisite: CHMA10H

CHMB42H3 Organic Chemistry II
Spectroscopy of organic compounds: Atomic substitution. Chemistry of carbonyl compounds. An introduction to the chemistry of biologically important compounds, including heterocycles, carbohydrates, amino acids, and trichlor acids.
This course includes a four-hour laboratory every other week.
Exclusion: CHM31Y, CHM247H, CHM249H
Prerequisite: CHMB41H

CHM035H3 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, aquatic chemistry, some agricultural and industrial chemistry, and chemical analysis of contaminants and pollutants.
Exclusion: CHM310H
Prerequisite: CHMA10H & CHMA11H

CHMC11H3 Principles of Analytical Instrumentation
An introduction to the workings of modern analytical instrumentation. Principles of measurement; detection of photons, electrons and ionic instrument and experimental design; amplification methods; noise reduction techniques and signal-to-noise optimization. Emission and absorptive spectroscopy, electrochemical methods and separation techniques will be covered.
Exclusion: CHM313H
Prerequisite: CHMB16H
Recommended: CHMB20H & CHMB21H

CHMB16H3 Analytical Instrumentation
A laboratory course to complement CHMC11H, 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, cleanup, concentration, derivatization), instrumental trace analysis, and data interpretation of various pharmaceutical, biological and environmental samples.
This course includes a four-hour laboratory every week.
Exclusion: CHM313H
Prerequisite: CHMC11H

CHMC20H3 Intermediate Physical Chemistry
Basic statistical mechanics and applications to thermochromy and kinetics; intermolecular interactions, concepts in reaction dynamics.
Prerequisite: CHMB20H & CHMB21H & MATH43H & PHYA21H
CHMC2110 Chemistry 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: CHMB201H & CHMB211H & MATB41H

CHMC311Y Organic Reaction Mechanisms
Theory and mechanisms of organic reactions; principles of structure, introduction to aromatics, 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 CHMC421H.
This course includes a three hour laboratory every week.
Exclusion: CHM340H
Prerequisite: CHMB411H & CHMB421H

CHMC321H Organic Synthesis
Principles of synthesis organic and functional group transformations; compound stereo-chemistry, spectroscopy and structure elucidation. Offered in even-numbered years alternating with CHMC421H.
This course includes a three hour laboratory every week.
Exclusion: CHM340H
Prerequisite: CHMB411H & CHMB421H

CHMC410H Bio-Organic Chemistry
The chemistry of biomolecules, nucleic acids, terpenes, steroids and other natural products; amino acids, proteins and carbohydrates; introduction to enzyme structure and catalysis.
Exclusion: CHM347H
Prerequisite: CHMB411H & CHMB421H

CHMD291H Organic Chemistry
Advanced topics in physical 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.

CHMD351H Symmetry in Chemistry
An essentially non-mathematical approach to the applications of symmetry and group theory in chemistry.
The course will cover areas such as structure and bonding, electronic and vibrational spectra, and reactivity. Examples will be taken from both organic and inorganic chemistry.
Prerequisite: CHMC311Y or CHMIC411H or permission of the instructor

CHMD361H 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.

CHMD491H Topics in Organic Chemistry
Advanced topics in organic 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.

CHMD681H 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.

CHMD691H Bioinorganic Chemistry
This course will explore the inorganic chemistry behind the requirement of biological cells for metals. The course will begin with the principles of coordination chemistry and a survey of the abilities of various functional groups within proteins and nucleic acids to form coordination complexes with metal ions. Their reactivity will be discussed in the context of the reaction mechanisms of specific metalloenzymes. Medically-relevant topics such as mechanisms by which organisms obtain required metal ions from their environment, the toxicity of metals and use of platinum containing compounds in treating cancer will also be covered.
Exclusion: CHM313H, CHM437H
Prerequisite: BGYC12H & BGYB13H & CHMC311Y

CHMD791H 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.
City Studies

CHMD90Y1, CHMD91H3
Directed Research
Participation in a research project under the direction of a faculty member. This project may involve original research, or may involve a thorough literature review and report on a topic of current interest. Approximately 260 hours of work are expected in CHMD90Y1 and 330 hours in CHMD91H3. The topic will be selected in conference with a member of the chemistry staff. Progress will be monitored during periodic consultations with the staff member.

Please see the note below on registration for both courses.

Exclusion: Students may take either CHMD90Y1 or CHMD91H3 but not both.

Prerequisite: Permission of the instructor.

Note for students planning to register in CHMD90Y1 or CHMD91H3
Students should apply to the Program Supervisor of Studies by June 25th to be admitted into the course. The Program Supervisor of Studies (or designates) is the only one permitted to give "permission of instructor." Application will consist of:

- The name of the proposed supervisor, with his/her signature indicating approval
- A brief description of the planned research
- A list of relevant courses already passed and to be taken during the current session

Generally, only students who have completed 15 full credits in total including at least 1.0 full credit of C-level CHM courses containing a lab component (i.e. CHMC10H4, CHMC20Y1, CHMC40H1/CHMC20H1, BGY20H1) will be accepted into the course. Research supervisors should normally be members of the CHM group at U of T Scarborough. Potential supervisors outside these groups must identify a co-supervisor who is a member of the CHM group at U of T Scarborough. Students doing research at the St. George campus will be graded with the cohort of 4th year research students in the Chemistry department, those pursuing their research at U of T Scarborough will be graded with the U of T Scarborough cohort.

City Studies
(B.A.)

Faculty List
J. Hantgan, B.A., M.A. (Western Ontario), Ph.D. (Ohio State), Professor
J. Mires, B.A. (Queen's), M.A., (Pitts.), M.Sc. (J.), Ph.D. (Toronto), Professor
E. C. Regehr, B.A., M.Phil. (London), Ph.D. (Toronto), Professor
A. Sorensen, B.F. A. (Nova Scotia College of Art and Design), M.Sc., Ph.D. (London), Associate Professor
S. Bunce, BA (Guelph); MES (M); York; PhD York, Assistant Professor
M.L. Kohut, B.A. (Western Ontario), M.A., PhD (Cornell University), Assistant Professor
D. Silver, B.A. (Birkbeck), M.A., PhD (Chicago), Assistant Professor

Undergraduate Counsellor: J. Roopnarinesingh. Email: social-sciences-counsellor@utoronto.ca

A pre-professional Major Program for students interested in career paths that may be city-related: e.g., architecture, city planning, real estate brokering, real estate development, housing, law, property real estate appraisal, property management, social work, social and city public policy, city environmental management, and city transportation policy. The Program equips students with the background knowledge and skills needed to think broadly about the relationships between their intended professions and the growth, sustainability, and livability of cities. The Major Program in City Studies is interdisciplinary: it is designed to give students the opportunity to see how they might apply ideas about cities from the social sciences and kindred disciplines in their field of professional interest.

Guidelines for 1st year course selection
Students intending to complete a program in City Studies should take at least one of [ANTA90H1 & ANTA90H2], [GRAD02H1 & GRAD03H1], [SOC40H1 & SOC40H2] or [1.0 A-level credit in Political Science] within their first 4.0 credits.

Note: It is Department policy that students without the prerequisites will be removed from the course. Students should check carefully the prerequisites required for particular B- and C-level courses. Note that some upper-level courses (e.g., SOC and ECM) are part of limited enrolment programs, with first preference in these courses going to students enrolled in these programs.

MAJOR PROGRAM IN CITY STUDIES

Program Requirements
This program requires a total of 7 full credits.

1. Introduction to Social Science Thought (2 full credits from among the following): ANT40H1 (Introduction to Anthropology: Becoming Human) or ANTH30H1 (Introduction to Anthropology: Culture, Society and Language) or HLT40H1 (Plagues and Peoples) or POLA31H1 (Critical Issues of Canadian Democracy) or POLS20H1 (Canada's Political Institutions)
   One other A-level half-course in Political Science
   SOCA40H1 (Introduction to Sociology)
SOCA02H Introduction to Sociology II
GGRS02H The Geography of Global Processes
GGRA03H Cities and Environments
[ECMA01H Introduction to Microeconomics]
or
ECMA04H Introduction to Microeconomics: A Mathematical Approach]
or
ECMA05H Introduction to Macroeconomics
or
ECMA06H Introduction to Macroeconomics: A Mathematical Approach

2. Fundamentals of City Studies (at least 2 full credits from among the following):
ANTB06H Health and the Urban Environment
CLTC03H Real Estate and the City
DTSB01H Introduction to Diaspora and Transnational Studies I
DTSB02H Introduction to Diaspora and Transnational Studies II
[ESAS01H Environmental Hazards]
or
ESAA06H Introduction to Planet Earth
GGRB05H Urban Geography
GGRB13H Social Geography
GGRB23H Geographies of Disease
GGRB27F Location and Spatial Development
SOCB44H Urban Sociology: Macro-Analysis
SOCB45H Urban Sociology: Micro-Analysis
WSTB12H Women: Issues of Violence and Safety

3. Methods (at least 1 full credit from among the following):
[SOCC06H Social Statistics]
or
STAB22H Statistics II]
[GRA30H GIS and Empirical Reasoning]
or
[ESAS08H GIS for the Beginning Student]
or
ESCC03H Geographic Information Systems and Remote Sensing]
SOCC23H Practicum in Qualitative Research Methods
SOCC33H Practicum in Quantitative Research Methods

4. Applications (at least 1.5 full credits from among the following):
ANTC39H Findings and Theoretical Issues in Anthropological Demography
ANTC40H Methods and Analysis in Anthropological Demography
CLTC03H Urban Communities and Neighbourhoods Case Study: East Scarborough
CLTC02H Learning in Community Service
CLTD01H City Issues and Strategies
ESFC21H Urban Environmental Problems of the Greater Toronto Area
ENGH09H Studies in the Victorian Period
GGRB02H Population Geography
GGRB04H Urban Residential Geography
GGRB13H Urban Political Geography
GGRB14H Urban Transportation Policy Analysis
GGRB33H The Toronto Region
GGRB09H Feminist Geographies
HIST23H The Emergence of Modern America, 1877-1933
HIST56H People in Motion: Immigrants and Migrants in U.S. History
HIST31H Topics in American Urban History: New York City
POLC33H Canadian Environmental Politics
POLC66H Public Policy Making
POLC67H Public Policy in Canada
SOCC03H Collective Behaviour
SOCC04H Social Movements
SOCC20H Sociology of Urban Growth
WSTC14H Women, Community, and Policy Change
WSTC20H Women and Environments

5. Core course (0.5 full credits)
CLTB01H Canadian Cities and Planning
Students are reminded that many of the courses above have prerequisites and that it is the responsibility of the student to ensure that they satisfy these requirements. Note that some upper-level courses (e.g., SOC) are part of limited enrollment programs with first preference to students enrolled in those programs.

MAJOR (CO-OPE) PROGRAM IN CITY STUDIES
Co-op Contact: askoop@utoronto.ca
Graduates will receive an Honours B.A. degree wherein they must combine the Major (Co-operative) Program in City Studies with one of the following:

- Major Program in Anthropology
- Major Program in Economics for Management
- Major Program in Environmental Science
- Major Program in History
- Major Program in Human Geography
- Major Program in Political Science
- Major Program in Sociology
- Major Program in Studio
- Major Program in Women's and Gender Studies

The Program is intended to complement the chosen academic discipline and to give students the opportunity to see how they might apply ideas from that discipline in their field of professional interest.

For information on admissions, fees, work terms and standing in the Program, please see the Co-operative Programs section of this Calendar.

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

Current U of T Scarborough students: Application procedures can be found at the Registrar's Office website: www.utoronto.ca/studentlife. The minimum qualifications for entry are 4.0 credits including 1.0 from [ANTA03H & ANTA02H], [GGRA03H & GGRA01H], [SOC01H & SOC02H] or 1.0 A-level credit in Political Science plus a cumulative GPA of at least 2.5.

Program Requirements
The Major (Co-operative) Program in City Studies combines academic studies in various disciplines with work terms in private enterprise, the public sector, or non-governmental organizations. It includes all of the requirements of the Major Program listed above, viz., 7 full credits as specified. In addition, students must successfully complete the non-credit Arts & Science Co-op Work Term Preparation course and two work terms.

Work Terms
Students must satisfactorily complete two work terms, each of four-month duration. To be eligible for the first work term, students must have completed at least 10 full credits, including 5 full credits as a U of T Scarborough student. These must include at least one full credit drawn from each of areas I (Introduction to Social Science Thought), II (Fundamentals of City Studies), and III (Methods). They must also have completed the Arts & Science Co-op Work Term Preparation course. Students are advised that being available for work terms during fall and winter may increase the variety of work available, and this in turn requires students to take courses during at least one summer session.

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.
Exclusion: GGRA006H
Recommended preparation: Completion of Requirement 1 of the Major Program in City Studies

CITC04H3 Urban Communities and Neighbourhoods
Case Study: East Scarborough
This course engages students in a case study of some of the issues facing urban communities and neighbourhoods today. Students will develop both community-based and academic research skills by conducting research projects in co-operation with local residents and businesses, non-profit organizations, and government actors and agencies.
Limited enrolment: 30
Exclusion: GGRA014H if taken in the 2008 Fall Session
Prerequisite: CITB01H & permission of instructor

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.
Limited enrolment: 30
Prerequisite: CITC01H & permission of instructor
CITDOH3 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.
Exclusion: (GGEB10H)
Prerequisite: CITB60H or [ECMB90H or ECMB20H]

CITD91H3 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.
Limited enrolment: 25 per section
Prerequisite: Completion of the Major Program in City Studies requirements (1) Introduction to Social Science Thought, (2) Fundamentals of City Studies, (3) Methods.

Classical Studies (B.A.)

Faculty List
J. Warden, M.A. (Cantab.), Professor Emeritus
K. Blois, B.A., M.A., Ph.D. (Laval and Nice), Assistant Professor

Program Director: K. Blois
Email: kblois@utsc.utoronto.ca

Classical studies is a multidisciplinary field which introduces the students to the study of the ancient Greek and Roman worlds. It involves disciplines such as history, literature, religion, language and linguistics, art history, archaeology, and philosophy and pertains to the study of wide areas of Europe, North Africa and Asia over several millennia (ca. 2000 B.C.-700 A.D.).

The classical world was in essence Greek and Roman. Yet it was also a complex, heterogeneous, permeable, mixed and constantly evolving world in which the Greeks and the Romans have always been intertwined with other peoples and cultures. Classical studies at UTSC offer students both a thorough examination of the main features of the Greek and Roman civilizations and a substantial introduction to the other peoples and cultures which were part of or interacted with it. In most courses the ancient written sources are studied in translation.

Guidelines for 1st year course selection
Students who intend to complete the Minor program in Classics should include CLAA04H & CLAA06H in their 1st year course selection. Students are also strongly encouraged to take HUMA01H (Exploring Key Questions in Humanities) as early as possible in their studies.

MINOR PROGRAM IN CLASSICAL STUDIES
Program Supervisor: K. Blois (416-287-7158). Email: classics-program-supervisor@utsc.utoronto.ca

Program Requirements
Students must complete four full credits, as follows:

1. Introduction
   CLAA04H The Ancient Mediterranean World

2. History and Culture
   CLAB05H History and Culture of the Greek World
   CLAB06H History and Culture of the Roman World

3. Mythology and Religion
   CLAA06H Ancient Mythology II: Greece and Rome
   CLAC22H Religions of the Ancient Mediterranean

4. Literature (0.5 credit from the following courses)
   CLAC11H Classical Literature I: Poetry
   CLAC12H Classical Literature II: Prose

5. Electives (1 full credit from the following courses):
   Classical Studies
   CLAA05H Ancient Mythology I: Mesopotamia and Egypt
   CLAB10H Greek and Latin for Scientists
   CLAK20H The Classical World in Film
   CLAC01H Selected Topics in Classical Literature
CLA02H Selected Topics in Classical Civilization
CLA11H Classical Literature I: Poetry if not taken as a required course
CLA12H Classical Literature II: Prose if not taken as a required course
CLA24H Multiculturalism and Cultural Identities in the Greek and Roman Worlds

Art History
VPHB41H The Human Figure in Greek Art (8th–4th cent. B.C.)
VPHB52H Ancient Art and Architecture (ca. 900 B.C.–300 A.D.)
VPHC46H Topics in Art of the Ancient World
VPHC53H The Silk Routes
VPHC56H Religion in the Arts: The Judeo-Christian Traditions

English
ENGC16H The Bible and Literature I
ENGC17H The Bible and Literature II
ENGC26H Drama: Tragedy
ENGC27H Drama: Comedy
ENGC36H Classical Myth and Literature

Languages
LGSA50H Introductory Latin I
LGSA51H Introductory Latin II
LGSA54H Introductory Sanskrit I
LGSA55H Introductory Sanskrit II
LGGB54H Intermediate Sanskrit I
LGGB55H Intermediate Sanskrit II

Music
VPMA93H Orpheus

Philosophy
PHLB16H Political Philosophy: Ancient Greece and the Middle Ages
PHLB31H Introduction to Ancient Philosophy

Religion
RLGB01H The "Holy Book" in Judaism, Christianity and Islam
RLGC01H The Five Books of Moses
RLGC02H The Gospels
RLGC03H Paul and the Invention of Christianity
RLGC04H Hindu Epics
RLGC05H The Qur'an

Anthropology
ANTH04H Artifacts and Prehistory
ANTH12H Introduction to World Prehistory: The Rise of Civilization

CLA04H 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.

CLA05H 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: CLAA05H may not be taken after or concurrently with NMC300Y

CLA06H 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: CLAA06H (CLAAM02H, CLAA03H) Recommended preparation: CLAA05H

CLA07H History and Culture of the Greek World
A survey of the history and culture of the Greek world from the Mycenaean 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. Exclusion: CLA250H
CLABSH 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 evidence, in socio-cultural interactions as well as to historical processes of continuities and ruptures. Exclusion: CLAS213H
Recommended preparation: CLAS100H

CLAB100H Greek and Latin for Scientists
The role of classical Greek and Latin in the formulation of technical scientific terms. Primary focus is on the biological and medical sciences. Particular emphasis on word analysis and structure; the principles of scientific word formation, and the characteristics, rules, and codes of scientific nomenclature. Exclusion: CLAS213H
Recommended preparation: CLAS005H or CLAS006H or CLAS200H or CLAS003H

CLAC200H 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. Exclusion: CLAS200H
Recommended preparation: CLAS005H or CLAS006H or CLAS200H or CLAS003H

CLAC011H 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. Exclusion: CLAS200H
Prerequisite: One full credit in Classics or in English or another literature

CLAC023H 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

CLAC111H 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 lyric. 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: CLAS006H

CLAC120H 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: CLAS006H & CLAC111H

CLAC221H Religions of the Ancient Mediterranean
A comparative study of the Mesopotamian, Egyptian, Phoenician and Greek, Latin, German, Hebrew, Christian religious beliefs and practices. Special attention will be dedicated to how they document the societies and cultures in which they flourish. Exclusion: CLAS200H, NMCM000H
Prerequisite: One full credit in Classics or Religion
Recommended preparation: CLAS005H & CLAS006H

CLAC232H 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 evidence through which these issues are documented and to their fundamental influence on the formation and evolution of ancient Mediterranean societies and cultures. Prerequisite: One full credit in Classics or History
Recommended preparation: CLAS005H & CLAS006H

LGG01H Introductory Latin I
LGG02H Introductory Latin II
LGG03H Introductory Sanskrit I
LGG04H Introductory Sanskrit II
LGG05H Intermediate Sanskrit I
LGG06H Intermediate Sanskrit II
See the Languages section of this Calendar for full course descriptions.
Cognitive Science
(B.Sc.)

Faculty List
A. Kokalis, A.B., M.A., Ph.D. (UCLA), Professor Emeritus
M.C. Smith, B.A. (Toronto), Ph.D. (MIT), Professor Emeritus
R.I. Hinnick, B.A. (CUNY), M.A., Ph.D. (Chicago), Professor
G. Hirst, B.A., B.Sc. (Montreal), M.Sc. (A.N.U., U.B.C.), Ph.D. (Brown), Professor
J. M. Kennedy, B.Sc., M.Sc. (Belfield), Ph.D. (Cornell), Professor
M.A. Schmuckler, B.A. (UNY-Binghamton), Ph.D. (Cornell), Professor
W.E. Saiger, M.A. (Alberta), Ph.D. (Toronto), Professor
G.S. Cree, B.A., M.A., Ph.D. (Western), Associate Professor
S. Jocelins, B.A. (New Brunswick), M.A., Ph.D. (Waterloo), Associate Professor
S. Sedov, B.A. (Toronto), Ph.D. (Pittsburgh), Associate Professor
R. Smyth, B.A. (Carleton), M.Sc. (Alberta), Ph.D. (Alberta), Associate Professor

Supervisor of Studies: S. Jocelins Email: jocelins@utsc.utoronto.ca

The Specialist and the Major Programs in Cognitive Science have been withdrawn. Students currently enrolled in these programs will be able to complete them.

COG0010143
COG0029143
COG0030143 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. Each 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.

Limited enrolment: Students are advised that they must obtain consent from the supervising instructor before registering for these courses.

Prerequisite: 3.0 credits at the B- or C-level in COG and/or LIN and/or PSY & permission of the supervisor. Note: Normally students need a cumulative GPA of at least 2.7 for permission to be granted.

Computer Science
(B.Sc.)

Faculty List
W.H. Enright, B.Sc. (U.B.C.), M.Sc., Ph.D. (Toronto), Professor
D. J. Flew, B.Sc. (Queens), M.Sc., Ph.D. (Toronto), Professor
V. Hadzilacos, B.Sc. (Princeton), Ph.D. (Harvard), Professor
G. Hirst, B.A., B.Sc. (Mcgill), M.Sc. (A.N.U., U.B.C.), Ph.D. (Brown), Professor
M. Malloy, B.Math, M.Math (Waterloo), Ph.D. (Carnegie Mellon), Professor
N. Koudas, B.Sc., M.Sc. (Maryland), Ph.D. (Toronto), Associate Professor
B. Schroeder, M.Sc. (Saarbrucken), Ph.D. (Carnegie Mellon), Assistant Professor
N. Cheng, B.Sc. (Toronto), Senior Lecturer
R. Pancer, B.Sc., M.Sc., Ph.D. (Toronto), Senior Lecturer
A. Rosedale, B.Sc. (N.C.S.U.), M.Sc., Ph.D. (Toronto), Senior Lecturer
A. Bretsher, B.Sc., M.Sc. (Queens), Ph.D. (Toronto), Lecturer
A. Hunter, M.Sc. (Toronto), Lecturer
C. Jansen, B.Sc., M.Sc. (Toronto), Lecturer
M. Szamosi, B.A. (Budapest), M.A. (Harvard), Lecturer
K. Wain-Hamilton, B.A. (Toronto), Lecturer

Associate Chair: W.H. Enright (416-287-7208)

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 to 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 for computers. Numerical analysis, data management systems, computer graphics, and artificial intelligence are concerned with the applications of computers to specific problem areas.

The Specialist Program in Computer Science prepares a student for graduate study and for a professional position in the computer field.

**Limited Enrolment:** Because of pressures of demand for places, it has been necessary to place enrolment limits on most CSC courses and on admission to the Major and Specialist Programs. Information on how to apply for admission to a Program is given below.

**Note on Admission to CSC Courses**

All CSC courses beyond the A-level, except for CSCB07H, are limited enrolment with preference being given to students admitted to and enrolled in CSC programs. If, towards the end of the registration period, spaces become available in CSC courses, registration may be opened up and some non-program students may be admitted on a first-come first-served basis. The following rules will apply:

- All prerequisites for the course(s) must be satisfied.
- A student who is not in a CSC program and does not have a cumulative GPA of at least 2.5 may not take any B-level CSC course, except CSCB07H.
- A student who is not in a CSC program and does not have a cumulative GPA of at least 3.0 may not take any C- or D-level CSC course.
- Permission to enrol must be confirmed by the Supervisor of Studies. Details will be posted on web sites during registration.

**Science Engagement Courses**

For science experiential learning through community outreach (SCIB01H), classroom in-reach (SCIB02H) and team research, please see the Science Engagement section of this Calendar.

**SPECIALIST PROGRAM IN COMPUTER SCIENCE**

This program has six streams:

1. Comprehensive Stream
2. Information Systems Stream
3. Software Engineering Stream
4. Joint Mathematics Stream
5. Joint Physics Stream
6. Joint Statistics Stream

**Program Admissions**

Each year, up to 80 students are admitted to the six streams of the Specialist Program in addition to those admitted to the Specialist Co-operative Program. There are three ways to be admitted:

1. **Direct from Secondary School:** Up to 40 students will be admitted directly from high school on the basis of academic performance. Applicants must have completed Grade 12 Calculus & Vectors and Advanced Functions.
2. **At the end of 1st Year:** Applicants must have completed all A-level courses required in their stream of the Specialist Program. Students applying for admission on completion of their first year (at least 4.0 full credits) will be accepted on the basis of their 1st year GPA and their marks in Computer Science and Mathematics courses. The minimum GPA to guarantee acceptance is calculated annually. It is never less than 2.0 and for this year it will not be greater than 2.8.
3. **After 2nd Year:** Admission of students after second year will also be on the basis of the grades they have received in Computer Science and Mathematics courses. Students applying at the end of their first year or later will be considered together for a total of approximately 40 places in the Specialist Program. As noted above, a GPA of 2.80 and above will guarantee acceptance (provided all required A-level courses have been successfully completed).

**Program Requirements**

In order to remain in the Program, a student must maintain a cumulative GPA of 2.0 or higher throughout the Program. The courses may be taken in any order as long as the prerequisites and co-requisites are satisfied.

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. Comprehensive Stream  

Supervisor of Studies: R. Pancer (416-287-7699) Email: pancer@nscc.utoronto.ca  

This stream requires 14.5 full credits.

Writing requirement  
(Should be completed by the end of second year.)

One of: ANT201H, ANT202H, (CLAA20H), ENGA1H1, ENG21H1, ENGB08H1, ENGB09H1, ENGEB04H1, ENGEB05H1,  
ENGEB1H1, ENGB3H1, ENGB34H1, ENG21H1, GGRA02H1, GGRA05H1, GGRA05H2, (GGRB06H1), HIS201H1, HLT201H1, HUMA1H1,  
HUMA1H2, HUMA1H3, HUMA2H1, HUMA2H1, HUMA3H1, HUMA3H2, LGS20H1, LGS20H1, LGS20H1, PHIL20H1, PHIL20H1, WSTA01H1.

A-level courses  

CSCA08H1 Introduction to Computer Programming  
CSCA48H1 Introduction to Computer Science  
CSCA45H1 Mathematical Expression and Reasoning for Computer Science  
MAT222H1 Linear Algebra I  
MAT228H1 Calculus I  
MAT279H1 Calculus II for Mathematical Sciences

B-level courses  

CSCB07H1 Software Design  
CSCB09H1 Software Tools and Systems Programming  
CSCB36H1 Introduction to the Theory of Computation  
CSCB58H1 Computer Organization  
CSCB65H1 Design and Analysis of Data Structures  
MATB249H1 Linear Algebra II  
MATB418H1 Techniques of the Calculus of Several Variables I  
MATB620H1 Techniques of the Calculus of Several Variables II  
STAB32H1 Introduction to Probability

C-level courses  

CSCC24H1 Principles of Programming Languages  
CSCC43H1 Introduction to Databases  
CSCC50H1 Numerical Analysis and Optimization  
CSCC51H1 Numerical Approximation, Integration and Ordinary Differential Equations  
CSCC63H1 Computability and Computational Complexity  
CSCC69H1 Operating Systems  
CSCC73H1 Algorithm Design and Analysis

D-level courses  

CSCD20H1 Social Impact of Information Technology

Elective courses, all levels  

Two of (additional courses related to the practice of computing):  
CSCC49H1 Programming on the Web  
CSCC40H1 Analysis and Design of Information Systems  
CSCC48H1 Microprocessor Systems  
CSCD30H1 Software Engineering  
CSCD31H1 Machine Learning and Data Mining  
CSCD35H1 Computer Graphics  
CSCD37H1 Computer and Network Security  
CSCD38H1 Database System Technology  
CSCD54H1 The Business of Software  
CSCD58H1 Computer Networks  
CSCD71H1 Topics in Computer Science  
CSCD72H1 Introduction to Neural Networks and Machine Learning  
CSCG21H1 Microprocessor Software  
CSCG74H1 Introduction to Artificial Intelligence  
CSCG28H1 Human-Computer Interaction  
CSCG40H1 Operating Systems Design and Implementation  
CSCG45H1 Computational Linguistics  
CSCG48H1 Compilers and Interpreters

Two of (additional fundamental mathematics courses):  
MATB43H1 Introduction to Analysis  
MATB44H1 Differential Equations I
MATC1H4 Groups and Symmetry
MATC1H2 Fields and Groups
MATC1H3 Introduction to Number Theory
MATC4H4 Complex Variables
MATC3H3 Chaos, Fractals and Dynamics
CSC466H Computational Methods for Partial Differential Equations
CSC456H High Performance Scientific Computing

One of (additional courses related to the theory of computing):
MATB2H1 Linear Programming and Optimization
MATC1H1 Introduction to Mathematical Logic
MATC1H1 Coding Theory and Cryptography
MATC3H1 Graph Theory and Algorithms for its Applications
MATC4H1 Introduction to Combinatorics
CSC372H1 Topics in the Theory of Computing
CSC373H1 Computer and Logic
CSC381H Formal Languages and Automata
CSC382H Formal Methods in Software Design

2. Information Systems Stream

-Jimmy Stewart, Program Director (416-287-7679) Email: js@scu.stevenson.ca

Note: Due to enrollment restrictions in required Management courses, registration in this stream is limited. A maximum of 20 students will be admitted annually to the second year of the Program. Selection will be based on grades in A-level courses specified for the Program with a minimum GPA of 2.5.

This stream requires 16.5 full credits.

Writing requirement
(Should be completed by the end of second year.)
See Comprehensive Stream.

A-level courses
CSC40H3 Introduction to Computer Programming
CSCA40H3 Introduction to Computer Science
CSCA58H3 Mathematical Expression and Reasoning for Computer Science
MATC2H1 Linear Algebra I
MATC3H1 Calculus I
MATC3H1 Calculus II for Mathematical Sciences
MGT40H3 Introduction to Management I
MGT41H3 Introduction to Management II

B-level courses
CSCB03H3 Software Design
CSCB03H3 Software Tools and Systems Programming
CSCB03H3 Introduction to the Theory of Computation
CSCB03H3 Computer Organization
CSCB03H3 Design and Analysis of Data Structures
MATB2H1 Linear Algebra II
MATB4H1 Techniques of the Calculus of Several Variables I
MATB4H1 Techniques of the Calculus of Several Variables II
STA352H1 Introduction to Probability
MGIB2H3 Managing People in Organizations
MGIB2H3 Managing Groups and Organizations

C-level courses
CSCB03H3 Principles of Programming Languages
CSCB03H3 Analysis and Design of Information Systems
CSCB03H3 Introduction to Databases
CSCB03H3 Computer and Computational Complexity
CSCB03H3 Operating Systems
CSCB03H3 Algorithm Design and Analysis
D-level courses
CSCD003H Social Impact of Information Technology
CSCD081H Software Engineering
CSCD433H Database System Technology

Elective courses, all levels
One of (additional courses in scientific computing):
CSC250H Numerical Methods
CSC250H Numerical Algebra and Optimization

Two of (additional courses related to the practice of computing):
CSC299H Programming on the Web
CSC299H Microprocessor Systems
CSCD1H Machine Learning and Data Mining
CSCD188H Computer Graphics
CSCD278H Computer and Network Security
CSCD381H Computer Networks
CSCD471H Topics in Computer Science
CSC321H Introduction to Neural Networks and Machine Learning
CSC372H Microprocessor Software
CSC384H Introduction to Artificial Intelligence
CSC465H Formal Methods in Software Design
CSC469H Operating Systems Design and Implementation
CSC485H Computational Linguistics
CSC488H Compilers and Interpreters

One of (additional courses related to business and computing):
CSCD548H The Business of Software
MATB61H1 Linear Programming and Optimization
MATC63H1 Introduction to Mathematical Finance
MGTC74H Analysis for Decision-Making

3. Software Engineering Stream
- Supervisor of Students: R. Pancer (416-287-7679) Email: pancer@stsc.utoronto.ca
- This stream requires 14.5 full credits
- Writing requirement
  (Should be completed by the end of second year.)
  See Comprehensive Stream.

A-level courses
CSCA081H Introduction to Computer Programming
CSCA481H Introduction to Computer Science
CSCA651H Mathematical Expression and Reasoning for Computer Science
MATA23H1 Linear Algebra I
MATA368H Calculus I
MATA378H Calculus II for Mathematical Sciences

B-level courses
CSCB07H1 Software Design
CSCB09H1 Software Tools and Systems Programming
CSCB36H1 Introduction to the Theory of Computation
CSCB38H1 Computer Organization
CSCB39H1 Design and Analysis of Data Structures
MATB23H1 Linear Algebra II
MATB41H1 Techniques of the Calculus of Several Variables I
MATB42H1 Techniques of the Calculus of Several Variables II
STAB52H1 Introduction to Probability
C-level courses
CSCC240H1 Principles of Programming Languages
CSCC404H1 Analysis and Design of Information Systems
CSCC431H1 Introduction to Databases
CSCC435H1 Computer Security and Computational Complexity
CSCC691H1 Operating Systems
CSCC731H1 Algorithm Design and Analysis

D-level courses
CSCD00H1 Social Impact of Information Technology
CSCD00H1 Software Engineering

Elective courses, all levels
One of (additional courses in scientific computing):
CSCC360H1 Numerical Methods
CSCC501H1 Numerical Algorithms and Optimization

Four of (additional courses in the practice of computing):
CSCC390H1 Programming on the Web
CSCC355H1 Microprocessor Systems
CSCD110H1 Machine Learning and Data Mining
CSCD181H1 Computer Graphics
CSCD217H1 Computer and Network Security
CSCD431H1 Database System Technology
CSCD581H1 Computer Networks
CSCD711H1 Topics in Computer Science
CSCG691H1 Operating Systems Design and Implementation
CSCG488H1 Compilers and Interpreters

4. Joint Mathematics Stream

Supervisor of Studies: R. Pancer (416-283-7679) Email: pancer@utsc.utoronto.ca
This stream requires 15.5 full credits

Writing requirement
(Should be completed by the end of second year.)
See Comprehensive Stream.

A-level courses
CSCA308H1 Introduction to Computer Programming
CSCA408H1 Introduction to Computer Science
CSCA651H1 Mathematical Expression and Reasoning for Computer Science
MATA323H1 Linear Algebra I
MATA368H1 Calculus I
MATA373H1 Calculus II for Mathematical Sciences

B-level courses
CSCB307H1 Software Design
CSCB308H1 Introduction to the Theory of Computation
CSCB501H1 Computer Organization
CSCB601H1 Design and Analysis of Data Structures
MATB241H1 Linear Algebra II
MATB341H1 Techniques of the Calculus of Several Variables I
MATB343H1 Techniques of the Calculus of Several Variables II
MATB343H1 Introduction to Analysis
MATB443H1 Differential Equations I
STAB320H1 Introduction to Probability

C-level courses
CSCC501H1 Numerical Algebra and Optimization
CSCC631H1 Computer Security and Computational Complexity
CSCC731H1 Algorithm Design and Analysis
MATC311H1 Groups and Symmetry
MATC341H1 Complex Variables
Elective courses, all levels
One of (additional courses in computing systems):
CSCC24H Principles of Programming Languages
CSCC43H Introduction to Databases
CSCC69H Operating Systems

Four of (mathematics courses with applications in theory of computing):
MATC20H Fields and Groups
MATC39H Introduction to Mathematical Logic
MATC15H Introduction to Number Theory
MATC16H Coding Theory and Cryptography
MATC32H Graph Theory and Algorithms for its Applications
MATC44H Introduction to Combinatorics

Three of (additional courses in analysis - numerical, real and complex):
CSCC53H Numerical Approximation, Integration and Ordinary Differential Equations
MATC35H Chaos, Fractals and Dynamics
MATC37H Introduction to Real Analysis
MATC36H Differential Equations II
MATC36H Complex Analysis II

One of (courses in the relationship of science and society):
PSCD20H Current Questions in Mathematics and Science
PSCD20H Social Impact of Information Technology

5. Joint Physics Stream
Supervisor of Studies: C.C. Dyer (416-287-7206) Email: dyer@cts.utoronto.ca
This stream requires 16.5 full credits

Writing requirement
(Should be completed by the end of second year.)
See Comprehensive Stream.

A-level courses
CSCB40H Introduction to Computer Programming
CSCA44H Introduction to Computer Science
CSCA51H Mathematical Expression and Reasoning for Computer Science
MATA23H Linear Algebra I
MATA30H Calculus I
MATA37H Calculus II for Mathematical Sciences
PHYA10H Introduction to Physics I
PHYA11H Introduction to Physics II

B-level courses
CSCB30H Software Design
CSCB90H Software Tools and Systems Programming
CSCB36H Introduction to the Theory of Computation
CSCB35H Computer Organization
CSCB63H Design and Analysis of Data Structures
MATB240H Linear Algebra II
MATB43H Techniques of the Calculus of Several Variables I
MATB42H Techniques of the Calculus of Several Variables II
MATB44H Differential Equations I
STAB23H Introduction to Probability Theory
PHYB10H Intermediate Physics Laboratory I
PHYB30H Vibrations and Waves
PHYB21H Electricity and Magnetism
PHYB21H Foundation of Modern Physics
PHIL20H Philosophy of Science
[PHYB11H Intermediate Physics Laboratory II]
or
PSCB30H The Instrumentation of Science]
C-level courses
CSCC501H Numerical Algebra and Optimization
CSCC511H Numerical Approximation, Integration and Ordinary Differential Equations
CSCC63H1 Computability and Computational Complexity
CSCC73H1 Algorithm Design and Analysis
CSCC83H1 Microprocessor Systems
PHYC24H1 Quantum Physics I

Elective courses, all levels
One of (additional courses in computer systems):
CSCC24H1 Principles of Programming Languages
CSCC43H1 Introduction to Databases
CSCC69H1 Operating Systems

One of (additional courses in the relationship between science and society):
PSCD03H1 Current Questions in Mathematics and Science
PSCD63H1 Social Impact of Information Technology

6. Joint Statistics Stream
Supervisor of Studies: A. Hashim (416-287-7232) Email: hashim@utne.utoronto.ca
This stream requires 15.5 full credits.

Writing requirement
(Should be completed by the end of second year.)
See Comprehensive Stream.

A-level courses
CSCA08H1 Introduction to Computer Programming
CSCA48H1 Introduction to Computer Science
CSCA65H1 Mathematical Expression and Reasoning for Computer Science
MATB23H1 Linear Algebra I
MATB30H1 Calculus I
MATB74H1 Calculus II for Mathematical Sciences

B-level courses
CSCB07H1 Software Design
CSCB36H1 Introduction to the Theory of Computation
CSCB38H1 Computer Organization
CSCB63H1 Design and Analysis of Data Structures
MATB24H1 Linear Algebra II
MATB43H1 Techniques of the Calculus of Several Variables I
MATB43H1 Techniques of the Calculus of Several Variables II
STAB52H1 Introduction to Probability
STAB57H1 Introduction to Statistics

C-level courses
CSCC501H Numerical Algebra and Optimization
CSCC511H Numerical Approximation, Integration and Ordinary Differential Equations
CSCC63H1 Computability and Computational Complexity
CSCC73H1 Algorithm Design and Analysis

Elective courses, all levels
One of (additional mathematics courses):
MATB44H1 Differential Equations I
MATB64H1 Linear Programming and Optimization
MATC03H1 Groups and Symmetry
MATC15H1 Introduction to Number Theory
MATC34H1 Complex Variables
MATC35H1 Chaos, Fractals and Dynamics

One of (additional courses in computer systems):
CSCC24H1 Principles of Programming Languages
CSCC43H1 Introduction to Databases
CSCC69H1 Operating Systems
Four of (additional courses in statistics and related topics): ACTB47H1 Introductory Life Contingencies
Any C-level STA course
Any 300- or 400- STA course on the St. George campus
(MATC63H1) Introduction to Mathematical Finance

One of (additional courses in the relationship between science and society):
PSCD20H1 Current Questions in Mathematics and Science
CSCD03H1 Social Impact of Information Technology

SPECIALIST (CO-OPERATIVE) PROGRAM IN COMPUTER SCIENCE
Supervisor of Studies: R. Pancer (416-287-7679) Email: pancer@uofc.utoronto.ca
Co-op Contact: asccoop@uofc.utoronto.ca

The Co-operative Program in Computer Science is a work-study Program which combines academic studies in Computer Science with work terms in public and private enterprises. The Program prepares students for direct employment as a computer professional as well as for graduate study in Computer Science. For information on admissions, fees, work terms and standing in the Program, please see the Co-operative Programs section of this Calendar.

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

Current U of T Scarborough students: Application procedures can be found at the Registrar’s Office website: www.utc.utoronto.ca/subjectdept. The minimum qualifications for entry are 4.0 full credits including CSCA08H1, CSCA40H1, CSCA65H1, MATA23H1, MATA40H1 & MATA37H1 plus a cumulative GPA of at least 2.75.

* The Information Systems stream also requires MGMT40H1 & MGMT40H4.

* The Joint Physics stream also requires PHYS10H1 & PHYS10H1.

Program Requirements
Work Terms
Students who entered the Program in 2001/2002 or later, must complete three work terms along with the academic Program. Students who entered before 2001/2002 must complete two work terms, with an optional third work term with permission of the Co-ordinator. Students must complete the Arts & Science Work Term Preparation course before going on their first work term.

Students are not permitted to complete more than one summer work term.

Course Requirements
The Co-operative Program can be taken in conjunction with any of the streams in the Specialist Program in Computer Science. Please refer to the description of the Specialist Program in Computer Science. The courses may be taken in any order as long as the prerequisites and co-requisites are satisfied.

Note: Each student's program requires the annual approval of the Supervisor of Studies.

See the Specialist Co-operative Program in Computer Science for admission information and work term requirements. Course requirements for the Co-operative Computer Science Major are the same as for the regular Computer Science Major (see below). The Co-operative Computer Science Major must be combined with a secondary Major in order to fulfill the degree requirements for an Honours B.Sc. The secondary Major must be pre-approved by the Supervisor of Studies.

MAJOR (CO-OPERATIVE) PROGRAM IN COMPUTER SCIENCE
Supervisor of Studies: R. Pancer (416-287-7679) Email: pancer@uofc.utoronto.ca
Co-op Contact: asccoop@uofc.utoronto.ca

See the Specialist Co-operative Program in Computer Science for admission information and work term requirements. Course requirements for the Co-operative Computer Science Major are the same as for the regular Computer Science Major (see below). The Co-operative Computer Science Major must be combined with a secondary Major in order to fulfill the degree requirements for an Honours B.Sc. The secondary Major must be pre-approved by the Supervisor of Studies.

MAJOR PROGRAM IN COMPUTER SCIENCE
Supervisor of Studies: R. Pancer (416-287-7679) Email: pancer@uofc.utoronto.ca

Program Admission
Each year up to 30 students are admitted to the second year of the Program, based on their first year GPA and marks in first-year courses in Computer Science and Mathematics. The minimum GPA to guarantee admission is calculated annually. It is never less than 2.00 and this year it will not be greater than 2.80.

Program Requirements
This program requires 8.0 full credits. The courses may be taken in any order as long as the prerequisites and co-requisites are satisfied.

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.

**Writing recommendation:**
Students in the Major program are strongly advised to take at least one of the following courses by the end of their second year:

**A-level courses**
- CSCA A03H Introduction to Computer Programming
- CSCA A48H Introduction to Computer Science
- CSCA A58H Mathematical Expression and Reasoning for Computer Science
- MATA 23H Linear Algebra I
- MATA 30H Calculus I
- MATA 37H Calculus II for Mathematical Sciences

**B-level courses**
- CSCE B07H Software Design
- CSCE B36H Introduction to the Theory of Computation
- CSCE B58H Computer Organization
- CSCE B63H Design and Analysis of Data Structures
- MATH B24H Linear Algebra II
- STA B25H Introduction to Probability

**Elective courses, all levels**
One of (additional courses in the practice of computing):
- CSCE C09H Programming on the Web
- CSCE C24H Principles of Programming Languages
- CSCE C40H Analysis and Design of Information Systems
- CSCE C43H Introduction to Databases
- CSCE C69H Operating Systems
- CSCE C85H Microprocessor Systems
- CSED C11H Machine Learning and Data Mining
- CSED C88H Computer Graphics
- CSED C97H Computer and Network Security
- CSED D50H The Business of Software
- CSED D71H Topics in Computer Science

One of (additional courses in scientific computing):
- CSCE C36H Numerical Methods
- CSCE C50H Numerical Algebra and Optimization

One of (additional courses in the theory of computing):
- CSCE C63H Computability and Computational Complexity
- CSCE C73H Algorithm Design and Analysis
- CSCE G05H Formal Methods in Software Design
- CSCE G48H Formal Languages and Automata

One of (additional courses in mathematics):
- MATH B41H Techniques of the Calculus of Several Variables I
- MATH B61H Linear Programming and Optimization
- MATC 09H Introduction to Mathematical Logic
- MATC 16H Coding Theory and Cryptography
- MATC 32H Graph Theory and Algorithms for its Applications
- MATC 44H Introduction to Combinatorics
MINOR PROGRAM IN COMPUTER SCIENCE
Supervisor of Studies: R. Panzer (416-287-7679) Email: panzer@uwo.ca

Program Requirements
This program may not be combined with any Major or Specialist Program in Computer Science, Mathematics or Statistics. It requires 4.0 full credits as follows:

1. All of (introductory programming courses)
   CSCE48H Introduction to Computer Science
   CSCE60H Introduction to Computer Science
2. One of: (basic mathematics courses)
   CSCE65H Mathematical Expression and Reasoning for Computer Science
   MAT224Y Linear Algebra I
   MAT238Y Calculus I
   MAT239Y Calculus I
   PHL350Y Symbolic Logic I
3. One of: (intermediate programming courses)
   CSCE80H Software Design
   CSCE90H Software Tools and System Programming
4. One of: (prerequisites for other courses in the program)
   CSCE93H Introduction to the Theory of Computation
   CSCE98H Computer Organization
5. One of: (courses in theoretical computer science or scientific computing)
   CSCE93H Design and Analysis of Data Structures
   CSCE96H Numerical Methods
   CSCE97H Computability and Computational Complexity
   CSCE98H Algorithm Design and Analysis
6. One of: (courses in the practice of computing)
   CSCE99H Programming on the Web
   CSCE24H Principles of Programming Languages
   CSCE40H Analysis and Design of Information Systems
   CSCE43H Introduction to Databases
   CSCE69H Operating Systems
   CSCE85H Microprocessor Systems
   CSCE90H Social Impact of Information Technology
7. One additional course from those listed in Requirements 5 and 6

Requirement 1 note: CSCE48H may be substituted, with permission of the program supervisor, for CSCE20H.

Requirements 5 & 6 note: CSCE80H, CSCE90H, CSCE96H, CSCE97H, CSCE98H & CSCE99H may require that you take more than 4.0 full credits to complete the program. If you are interested in taking one of these courses, check the prerequisites carefully before deciding which courses to select from Requirements 2-4. See the program supervisor if you need a program exception for the statistics prerequisite for CSCE80H or for the calculus prerequisite for CSCE99H.

SPECIALIST PROGRAM IN MANAGEMENT AND INFORMATION TECHNOLOGY
See the Management section of this Calendar for program requirements.

SPECIALIST PROGRAM IN QUANTITATIVE ANALYSIS
See the Statistics section of this Calendar for program requirements.

CSCE48H Introduction to Computer Programming
Structure of computers, the computing environment, Programming in an object-oriented language such as Python. Program structure: elementary data types, statements, control flow, functions, classes, objects, methods, fields, lists, searching, sorting and complexity. Exclusion: CSCE20H, CSCE99H, CSCE120H. CSCE48H may not be taken after or concurrently with CSCE48H.
Prerequisite: Any Grade 12 mathematics course
Note: This course is intended for students with no prior exposure to computer programming. Students who have sufficient programming experience may enrol directly in CSCE48H, consult the instructor or the Supervisor of Studies for guidance.

CSCE20H Computer Science for the Sciences
An introduction to computer science for students in other sciences, with an emphasis on gaining practical skills. Introduction to programming; web programming; database design; software tools; examples and exercises taken from the sciences. At the end of this course you will be able to develop computer tools for scientific applications, such as the structuring and analysis of experimental data. Exclusion: CSCE08H, CSCE10H, CSCE120H
CSCA48H3 Introduction to Computer Science


Exclusion: CSC148H
Prerequisite: CSCA80H & Grade 12 Calculus & Vectors & one other Grade 12 mathematics course

Note: This course assumes programming experience in an object-oriented language such as Python, C++ or Java, as provided by CSCA80H. Students who already have this background may consult the instructor or Supervisor of Studies for advice about skipping CSCA48H. Students who enroll in CSCA48H and find the course too difficult may "drop down" to CSCA08H in sessions when CSCA08H is offered. The deadline for "dropping down" is the end of the fifth week of classes.

CSCA08H3 Mathematical Expression and Reasoning for Computer Science

Introduction to abstraction and rigour. Understanding, using and developing precise expressions of mathematical ideas, including definitions and theorem. Informal introduction to logical notation and reasoning. Representation of floating point numbers and introduction to numerical computation.

Exclusion: CSC163H, CSC240H
Prerequisites: CSCA08H & Grade 12 Calculus & Vectors & one other Grade 12 mathematics course.
Corequisites: CSCA44H

CSCB80H3 Software Design

An introduction to software design and development concepts, methods, and tools, using a statically-typed object-oriented language such as Java. Topics include: version control, build management, unit testing, refactoring, design patterns, advanced IDE usage, regular expressions, markup languages, parsing using finite state machines, and reflection.

Exclusion: CSC207H
Prerequisite: CSCA48H
Corequisite: CSCA46H

CSCB80H3 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.

Exclusion: CSC209H
Prerequisite: CSCB80H & [CGPA 2.5 or enrolment in a CSC subject POS]

CSCB20H3 Concepts in Elementary Computer Science

A course specifically for students intending to become elementary or high school teachers. Computer science concepts will be discussed at a fundamental level. Topics covered: problem solving, algorithms, recursion, applications, connections to mathematics, connections to society. Throughout the course, students will apply these concepts to fit the current Ministry's Guidelines for the various grade levels. Students may be required to teach some one-hour classes to various grade levels in an approved school. This is a "teaching friendly" course. The course will be broken up into three distinct topics: elementary level (grades K-5), intermediate (grades 6-9), senior (grades 10-12).

Exclusion: This course may not be taken after or concurrently with any C- or D-level Computer Science course.
Prerequisites: [CSAC80H or CSCA80H or PSIC87H] & 3 other full credit & a cumulative CGPA of at least 2.5. Priority will be given to ETP/CEETP students.

Note: This course assumes programming experience in a language such as Python, C++ or Java as provided by CSCA08H. Students who already have this background may consult the instructor or Supervisor of Studies for advice about skipping CSCA80H/SCSA20H/PSIC87H.

CSCB35H3 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.

Exclusion: CSC236H, CSC240H
Prerequisites: CSCA48H & CSCA65H & [CGPA 2.5 or enrolment in a CSC subject POS]

CSCB83H3 Computer Organization

Computer structures, machine languages, instruction execution, addressing techniques, and digital representation of data. Computer system organization, memory storage devices, and microprogramming. Block diagram circuit realizations of memory, control and arithmetic functions. There is a number of laboratory periods in which students conduct experiments with digital logic circuits.

Exclusion: CSC258H
Prerequisite: [CSAC48H or PSIC87H] & [CGPA 2.5 or enrolment in a CSC subject POS]

CSCB35H3 Design and Analysis of Data Structures

Exclusion: CSC263H, CSC265H
Prerequisites: CSCB87H & CSUB36H & STA352H & [CGPA 2.5 or enrolment in a CSC subject POS]
CSCC59H3 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.
Exclusion: CSC309H1
Prerequisite: CSCB39H1 & CSCC43H1 & [CSPA 3.0 or enrolment in a CSC subject POS] [CSCC59H3 Numerical Algebra and Optimization]
The efficiency and stability of solution techniques for systems of linear equations and least-squares problems, including LU- and QR-based methods. Algorithms for optimization problems, including linear programming, and for systems of nonlinear equations.
Exclusion: CSCC68H1, CSC36H1, CSC358H1
Prerequisite: [PCIB87H1 or CSCB87H1] & MATB24H1 & MATB42H1 & [CSPA 3.0 or enrolment in a CSC subject POS]
CSCC51H3 Numerical Approximation, Integration and Ordinary Differential Equations
Exclusion: CSCC56H1, CSC336H1, CSC351H1
Prerequisite: [CSCB58H1 & [CSPA 3.0 or enrolment in a CSC subject POS]
CSCC56H1 Computational and Computational Complexity
Introduction to the theory of computability. Turing machines, Church’s thesis, computable and non-computable functions, recursive and recursively enumerable sets, reducibility. Introduction to complexity theory: models of computation, P, NP, polynomial time reducibility, NP-completeness, further topics in complexity theory.
Note: Although the course CSCC63H1 & CSCC73H1 may be taken in any order, it is recommended that CSCC73H1 be taken first.
Exclusion: CSC36H1, CSC368H1, CSC364H1
Prerequisite: CSCB36H1 & [CSPA 3.0 or enrolment in a CSC subject POS]
CSCC58H3 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 problems: synchronization, mutual exclusion, deadlock. Additional topics include memory management, file systems, process scheduling, threads, and protection.
Exclusion: CSC36H1
Prerequisite: CSCB67H1 & CSCB89H1 & CSCB55H1 & [CSPA 3.0 or enrolment in a CSC subject POS]
CSCC73H3 Algorithm Design and Analysis
Standard algorithm design techniques: divide-and-conquer, greedy strategies, dynamic programming, linear programming, randomized, and possibly others.
Exclusion: CSC376H1, CSC375H1, CSC364H1
Prerequisite: CSCB68H1 & [CSPA 3.0 or enrolment in a CSC subject POS]
CSCC58H3 Microprocessor Systems
A study of hardware and software aspects of microprocessors and microcomputer systems. This course will examine instruction sets, addressing modes, memory devices, bus structures, input/output and interrupt mechanisms. Assembly language and high-level language programming. System and applications software. Laboratory experiments will provide hands-on experience.
Limited enrolment: 100
Exclusion: ECEB35H1
Prerequisite: CSCB58H1 & [CSPA 3.0 or enrolment in a CSC subject POS]
CSCD30H3 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; computational illusion of privacy; computer-based crime; and professional ethics in the software industry. There will be emphasis on current events relating to these topics.

Limited enrollment: 25
Exclusion: CSC300H1
Prerequisite: 1.0 full credits including CSCA00H1 or PSCB37H1 or CSCA48H3 [or, in special cases, (CSCA02H3) & permission of the instructor]

CSCD68HS Software Engineering

The structure and unique characteristics of large software systems. Concepts and techniques in the design and implementation of large software systems. Requirements definition and specification. Software modularity and programming languages for system implementation. Debugging, testing and software quality assurance. Software project management. Formal methods in software engineering. A course project is used to illustrate software engineering techniques.

Exclusion: CSC400H1
Prerequisite: CSCC60H1 & [CSCB09H1 or proficiency in C] & [COPA 3.0 or enrolment in a CSC subject POS]

CSCD11H3 Machine Learning and Data Mining


Exclusion: CSCA41H1
Prerequisite: MAT24H5 & MATB41H1 & STAB52H1 & CSCB63H1 & [CSCC36H1 or CSCS30H1] or permission of the instructor & [COPA 3.0 or enrolment in a CSC subject POS]

CSCD18HS Computer Graphics

Identification and characterization of objects manipulated in computer graphics, operations on these objects, efficient algorithms to perform these operations, and interfaces to transform one type of object to another. Display devices, display data structures and procedures, graphical input, object modeling, transformations, illumination models, light effects; graphics packages and systems.

Exclusion: CSCA31H4
Prerequisite: MAT24H5 & MATB42H1 & [CSCB09H1 or proficiency in C] & [CSCB63H1 & [CSCC45H4 or CSCS50H1] & [COPA 3.0 or enrolment in a CSC subject POS]]

CSCD327H3 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 defenses; intrusion detection and prevention; social engineering attacks; risk assessment and management.

Exclusion: CSC421H1
Prerequisite: CSCB09H1 & CSCB33H1 & [COPA 3.0 or enrolment in a CSC subject POS]
Recommended Preparation: CSCS49H1

CSCD434H3 Database System Technology


Exclusion: CSC434H3
Prerequisite: CSCC45H1 & CSCC69H1 & CSCC72H1 & [COPA 3.0 or enrolment in a CSC subject POS]

CSCD454H3 The Business of Software

Overview of the software industry, and principles of operation for successful software enterprises. Software business definition and planning; market and product planning; management of innovation, research and software development; software marketing and sales management; software manufacturing and support; financial management of high-technology ventures; human resource management and development in high-technology industries.

Exclusion: CSC545H1
Prerequisite: 2.5 full credits in Computer Science at the B-level or higher & [COPA 3.0 or enrolment in a CSC subject POS]

CSCD68HS 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-end model implemented in the Internet.

Exclusion: CSCS58H1
Prerequisite: CSCB59H1 & CSCEB5H1 & [STAB52H2 or STAB57H1] & [COPA 3.0 or enrolment in a CSC Subject POS]

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 & [COPA 3.0 or enrolment in a CSC subject POS]. Normally intended for students who have completed at least 8.0 full 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 & [COPA 3.0 or enrolment in a CSC subject POS]. Normally intended for students who have completed at least 8.0 full credits.
CSCD49H3 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.
Exclusion: CSCD49H
Prerequisite: [Three C-level computer science half-courses] & [permission of the Supervisor of Studies] & [CGPA 3.0 or enrollment in a CSC subject POS] Enrolment procedures: Project supervisor's note of agreement must be presented to the Supervisor of Studies, who must issue permission for registration.

CSCD95H3 Computer Science Project
Same description as CSCD49H. 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.
Exclusion: CSCD49H
Prerequisite: CSCD49H
Note: Students must obtain consent from the Supervisor of Studies before registering for this course.

Concurrent Teacher Education
(B.A./B.Sc. & B.Ed.)
Web address: www.uottawa.ca/step
CTEP Co-ordinator: S. Syed Email: ssyed@uottawa.ca
Academic Advisor (French): C. Beaupre Email: ctep-french-program-supervisor@uottawa.ca
Academic Advisor (Mathematical Sciences): TBA Email: TBA
Academic Advisor (Physical Sciences): C. Dyer Email: cdyer@uottawa.ca
The Concurrent Teacher Education Program (CTEP) is a partnership between the Ontario Institute for Studies in Education (OISE) and six other academic units of the University of Toronto. The Concurrent Teacher Education Program (CTEP) is a partnership between the Ontario Institute for Studies in Education (OISE) and six other academic units of the University of Toronto Scarborough, which allows students interested in a career in teaching to complete two undergraduate degrees at the same time during five years of full-time study. Upon successful completion of the program, U of T Scarborough students will earn both a Bachelor of Education and either an Honours Bachelor of Arts or an Honours Bachelor of Science and will be recommended for certification as elementary or secondary teachers in Ontario.

There are two CTEP options at U of T Scarborough:
• CTEP Arts - French: This program prepares students to become teachers at the primary-junior (Kindergarten to Grade 6) or the intermediate-secondary level (Grades 7 to 12).
• CTEP Science - Mathematical & Physical Sciences: This program prepares students to become teachers at the primary-junior (Kindergarten to Grade 6) or the intermediate-secondary level (Grades 7 to 12).

Teaching Subjects
Intermediate/Secondary (6-12): Students must have two teaching subjects, the main teaching (anchor) subject and a second teaching subject.
Primary/Junior (P/J): Students must have an anchor subject but they do not need a second teaching subject (although it is recommended). As teachers, they will cover many topics in the curriculum and should have knowledge of a range of areas.

Students declare their anchor and second subjects and teaching level (primary/junior or intermediate/secondary) in the session following attainment of their 4th credit.
• Anchor subjects: For students admitted to CTEP/Arts, the anchor is French as a Second Language. For students admitted to CTEP/Science, the anchor is one of Mathematics, Science-Chemistry or Science-Physics.
• Second subjects: Eligible second subjects at UTSC are: Computer Studies; Dramatic Arts; Economics; English; French as a Second Language; Geography; History; Mathematics; Politics; Science-Biology; Science-Chemistry; Science-General; Science-Physics; Sociology Sciences-General; and, Visual Arts.
At this stage of their studies they also select the specialist or major programs that are associated with their anchor subject.

Specialist and Major Programs Associated with Anchor Subjects
(See the Chemistry, French, Mathematics, Physical Sciences, Physics or Statistics section of this Calendar for specific program requirements.)
CTEP/Arts
• Specialist Program in French
• Specialist Program in Communication Studies
CTEP/Science
• Specialist Program in Biological Chemistry
• Specialist Program in Chemistry
• Specialist Program in Mathematics
Concurrent Teacher Education

- Specialist Program in Mathematics and Its Applications
- Specialist Program in Natural Sciences
- Specialist Program in Physical and Mathematical Sciences
- Specialist Program in Physics and Its Applications
- Specialist Program in Quantitative Analysis

Two approved major programs, one of which must be from the following list:

a) Major Program in Astrophysics and Physics
b) Major Program in Biochemistry
c) Major Program in Chemistry
d) Major Program in Mathematics
e) Major Program in Physical Sciences
f) Major Program in Statistics

Note: If available, students are encouraged to enrol in a minor program associated with their second teaching subject.

Admissions

In most cases, students apply to enter CTEP either directly from secondary school or after their first year of university studies.

Prospective Applicants: For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty, applicants must indicate the special code for the program on the Application for Admission to an Ontario University. See the Admissions section of this Calendar for more information and deadlines.

Upon receiving the application, the University of Toronto's Admissions and Awards office will send the applicant a confirmation letter and Applicant Information Guide. At this stage CTEP applicants will be required to complete an on-line Application Profile.

Current U of T Scarborough Students: Application procedures can be found at the Registrar's Office website at: www.uts Scarborough.ca/subjectpost. Admission is competitive. Applications will be considered from students who:

- Are enrolled in an eligible specialist or major program
- Have at least 4.0 credits including the recommended first year courses for the appropriate specialist or major program
- Have a cumulative GPA of at least 2.50

Academic status in CTEP

Note: These rules are over and above the rules governing overall standing at UTSC as described in the Overall Standing section of this Calendar and apply to the Honours Bachelor of Arts or Honours Bachelor of Science part of CTEP.

Academic status within CTEP will be determined as follows at the end of each Winter Session for all students who have attempted at least eight full credits since beginning their studies in their degree.

1. In good standing in CTEP
   Students who maintain a cumulative grade point average of 2.50 or better are said to be "in good standing" in CTEP.

2. On probation in CTEP
   Students who have attempted at least eight full credits and have a cumulative GPA below 2.50 will be placed on probation in CTEP.

3. Probation in CTEP cleared
   Students may clear probation by achieving a cumulative GPA of at least 2.50. Students who have cleared probation shall be said to be again in good standing in CTEP.

4. Probation in CTEP continued
   Students may continue on probation in CTEP by achieving an annual (Fall/Winter) GPA of at least 2.50 until such time as they return to good standing.

5. Required to withdraw from CTEP
   The following students will be required to withdraw from CTEP:
   a) Any student on probation in CTEP who fails to achieve an annual GPA of at least 2.70
   b) Any student who, under the general rules governing overall standing, incurs a suspension.
   c) Any student who fails to meet OISE's standards for continued enrolment in the BEd program.
Program Requirements
The program requires completion of:

1. Completion of an approved specialist program or of two approved major programs.
2. The following education focused courses (some currently under development):
   a) CTEB01H (Introduction to Developmental Psychology: Focus on Education) to be taken within Years 1 or 2.
   b) CTEB01H (Equity and Diversity in Education) to be taken within Years 2 or 3.
   c) CTEC01H (Communication and Conflict Resolution) to be taken within Years 2 or 3.
   d) Two 0.5 credit Subject Studies for Teachers courses to be taken within Years 1, 2 or 3 or the Fall of Year 4. Students who have chosen the French option must take FREN11H and FREN13H.
   e) CTEP internship in a school or community organization to be taken within Years 3, 4 or 5.

Students who choose, or are required, to withdraw from CTEP will be allowed to transfer to a non-CTEP Honours Bachelor of Arts or Honours Bachelor of Science, retaining credit for all courses except the internship in e) above and the Bachelor of Education courses listed below.

3. A Bachelor of Education degree which requires completion of 5.0 full credits as follows:
   a) Year 3 or 4: Principles of Teaching: Legal, Ethical and Professional (0.5 credit).
   b) Year 3 or 4: Inclusive Education: ESL and Exceptional Learners (0.5 credit) which includes 20-hour field experience focused on observation/tutoring.
   c) Year 3 or 4: Psychological Foundations of Learning (0.5 credit).
   d) Year 3 or 4: Social Foundations of Teaching and Schooling (0.5 credit).
   e) Year 4: Mentored Inquiry and Teaching (0.25 credit) with 10-15 days spent in schools.
   f) Year 4: Curriculum, Instruction and Assessment#1 (1.0 credit).
   g) Year 4: Practicum placement in schools (0.25 credit), 35-40 days, 3.5 days per week, Winter session.
   h) Year 5: Mentored Inquiry and Teaching (0.25 credit) with 10-15 days spent in schools.
   i) Year 5: Curriculum, Instruction and Assessment#2 (1.0 credit).
   j) Year 5: Practicum placement in schools (0.25 credit), 25 days, 5 days per week, month of May to be taken in Year 5.

Over the course of the program, CTEP students will also develop a Portfolio, a collection of artifacts, assignments and reflective activities that mirrors their growth as CTEP candidates from students to professionals.

(For more information on these courses and OISE related CTEP requirements, see the OISE Calendar.)

Graduation from CTEP
In order to graduate in the CTEP program, students will be required:

1. To complete requirements of an Honours B.A. or an Honours B.Sc. with a cumulative GPA of at least 2.50.
2. To complete the requirements of a B.Ed.

CTEB01H3 Equity and Diversity in Education
Focuses on raising awareness and sensitivity to issues related to equity, diversity and inclusion facing teachers and students in diverse schools and cultural communities. It includes field experience that entails observation of, and participation in equity and diversity efforts in a culturally-routed school and/or community organization. Limited enrolment: Restricted to CTEP students. Exclusion: CTEB01H
Prerequisite: PSYB21H

CTEC01H3 Communication and Conflict Resolution
This course will provide theoretical knowledge about small-group interactions and their application for interpersonal communication and conflict resolution. First, we will study the role of status characteristics, cross-cultural variation in communication, and the emergence of power as they relate to the etiology of conflict. How the same facts can be re-organized in conflict management and resolution will be the focus in the second half of the course. Students will work on case studies and write reports about them. Limited enrolment: M. Restricted to CTEP students. Prerequisite: CTEB01H & PSYB21H

PSYB21H3 Introduction to Developmental Psychology: Focus on Education
See the Psychology section of this Calendar for a full course description.
Diaspora and Transnational Studies

Faculty List
M. Lambe, B.A., (McGill), M.A., Ph.D. (Michigan), P.R.S.C., Professor
M.B. Goldman, M.A., (Victoria), Ph.D. (Toronto), Associate Professor
N. Ten Korom, M.A., Ph.D. (Toronto), Associate Professor
E.A. Hamy, M.Phil., Ph.D. (London), Assistant Professor
R. Iseri, B.A., M.A. (McGill), Ph.D. (John Hopkins), Assistant Professor
K. MacDonald, B.A., M.A., Ph.D. (Waterloo), Assistant Professor

Undergraduate Counsellor: J. Roopnarinesingh Email: social-sciences-counsellor@utsc.utoronto.ca

Where is home? Need it be in one place? Is it always attached to territory? Diaspora and transnational studies examines the historical and contemporary movements of peoples and the complex problems of identity and experience to which these movements give rise as well as the creative possibilities that flow from movement. The program is comparative and interdisciplinary, drawing from the social sciences, history and the arts. Students are required to take two linked half-courses that offer an introduction to a broad array of themes and disciplinary methodologies. The program offers a wide selection of additional courses, giving students the opportunity to learn about a range of diasporic communities as well as key debates in the field.

MAJOR PROGRAM IN DIASPORA AND TRANSNATIONAL STUDIES

Program Requirements
Students must complete 7.0 full credits as follows:

1. DTSB001H Introduction to Diaspora and Transnational Studies I
   DTSB002H Introduction to Diaspora and Transnational Studies II
2. 5.0 full credits from Group A and Group B courses (below) with at least 2.0 full credits from each group. Coverage must include at least two diasporic communities or regions, to be identified in consultation with the program advisor. At least 1.0 full credit must be at the C-level or above.
3. DTSB001H Advanced Topics in Diaspora and Transnationalism I: Postcolonialism and Diaspora
   DTSB002H Advanced Topics in Diaspora and Transnationalism II: Critical Approaches to Diaspora Studies

Group A (Humanities) courses
ENG197H Contemporary Literature from the Caribbean
ENG213H Ethnics Traditions in American Literature
ENG575H The Immigrant Experience to 1980
ENG576H The Immigrant Experience in literature since 1980
ENG576H Arab North American Literature
ENG577H Between Traditions and Freedoms: Writing by Canadians of Asian Descent
FREB350H The Francophone World
FREB355H Francophone Literature
FREB355H Cinema of the Francophone World
FREB374H Special Topics in Linguistics: Pidgins and Creole Languages
GASB91H Methodologies and Issues in Global Asia Studies
GASC208H Gendering Global Asia
HIBB202H The British Empire: A Short History
HIBB202H History on Film
HIBB254H The Early Modern Mediterranean, 1500-1800
HISC441H Edible History: History of Global Foodways
HISC611H People in Motion: Immigrants and Migrants in U.S. History
HISC455H Immigrants and Race Relations in Canadian History
HISC574H China and the World
HISC575H Delhi and London: Imperial Cities, Mobile People
HISC604H Old Worlds? Travellers and Foreigners in the Mediterranean, 1200-1700
HISC605H History of Animals and People
HISC606H Missionaries and Converters in the Early Modern World
HISC608H Between Two Worlds? Translators and Interpreters in History
HISC609H Global History of Crime and Punishment since 1750
HISC335H Thinking of Diversity: Perspectives on American Pluralisms
HISC336H The Politics of American Immigration, 1865-present
HISC601H Coolies and Others: Asian Labouring Diasporas in the British Empire
HISC606H Travelling and Travel Writing from the Middle Ages to the Early Modern Period
IECE222H Perspectives on the Globalized and the Transnational I
IECE222H Perspectives on the Globalized and the Transnational II
MINOR PROGRAM IN DIASPORA AND TRANSNATIONAL STUDIES

Program Requirements
Students must complete 4.0 full credits as follows:

1. DTSB01H Introduction to Diaspora and Transnational Studies I
   DTSB02H Introduction to Diaspora and Transnational Studies II
2. 2.5 full credits from Group A and Group B courses (see the Major Program above) with at least 1.0 full credit from each group.
   At least 0.5 credit must be at the C-level or above.
3. DTSB03H (Advanced Topics in Diaspora and Transnationalism: Postcolonialism and Diaspora) or
   DTSB02H (Advanced Topics in Diaspora and Transnationalism II: Critical Approaches to Diaspora Studies)

DTSB01H 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: DTSB02H, DTSB03H

It is recommended that students take DTSB01H in their second year of study.

DTSB02H Introduction to Diaspora and Transnational Studies II

A continuation of DTSB01H. 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: DTSB02H

Prerequisite: DTSB01H

It is recommended that DTSB01H & DTSB02H be taken in the same academic year.
DTS802H3 Advanced Topics in Diaspora and Transnationalism I: Postcolonialism and Diaspora
This will be a course using the intersections between
Postcolonialism and Diaspora Studies to explore issues of place, memory, and identity. The course will be
comparative and interdisciplinary with a focus on literature, anthropology, political science and cultural studies.
Limited enrolment: 25
Exclusion: DTS400H1
Prerequisite: DTS801H1 & DTS802H1. Students should take this
course in their 4th year of study.

Drama
See the Visual and Performing Arts section of this Calendar.

Economics For Management Studies
(B.B.A./B.A.)

Faculty List
M. Kraskinshy, S.B. (M.I.T.), M.Phil., Ph.D. (Yale), Professor
M. Campbell, B.Sc., M.A., Ph.D. (Toronto), Associate Professor
W. Hojati, B.A. (Western Ontario), M.A., Ph.D. (Toronto), Associate Professor
H. Kraskinshy, B.A. (Queen's), M.A., Ph.D. (Princeton), Associate Professor
J.C. Parker, B.A. (Manitoba), M.A. (Toronto), Ph.D. (Yale), Associate Professor
E. Dizyee, B.A. (Colorado), M.A. Ph.D. (California), Assistant Professor
A. M. Frazer, B.A. (California) M.A., Ph.D. (Rochester), Assistant Professor
O. Frazer, B.Math (Waterloo), B.Ed. (Western), M.A. (Toronto), M.Phil., Ph.D. (Yale), Assistant Professor
J.S. Xu, B.A., M.A., B.A. (Simon Fraser), Senior Lecturer
G. H. Cleveland, B.A. (Dalhousie), M.A., Ph.D. (Toronto), Senior Lecturer
J. Parkinson, Hon B.A. (Western), M.A., Ph.D. (Toronto), Senior Lecturer

Chair: M. Kraskinshy
Economics studies how consumers and producers interact in a market economy to provide goods and services. Economists also study 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. Thus 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.

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 elect other majors or minors in economics as part of the B.A. degree. Finally, economics plays a significant role within the various programs leading to the B.B.A. Program.

Students wishing to pursue a graduate program in Economics will require some additional courses not offered at UTSO. As such as possible, such students should consult with the Supervisor of Studies in Economics at U of T Scarborough for advice on the courses that may be most helpful.

Programs in Economics for Management Studies:
Although a group of students are directly admitted from high school, students generally apply to enter a program at the end of their first year. Later admission is also possible. Students should consult the detailed discussion below. The following Programs are offered:

1. Specialist (Co-op) in Economics for Management Studies - a specialist program in Economics in the context of a Management degree, and including Co-op work terms. This Program leads to a B.B.A. Described in detail below.
2. Specialist in Economics for Management Studies - a specialist program in Economics in the context of a Management degree.
   This program leads to a B.B.A. Described in detail below.
3. Major in Economics for Management Studies - program of six full credits of Economics for Management Studies, one full credit in Mathematics and one in Humanities. This is an arts program. (See the Degree section of this Calendar for information on B.A. and B.Sc. degrees.) Described in detail below.
   Note: Students may not be jointly enrolled in a program leading to a B.B.A. and in the Major Program in Economics for Management Studies.
Economics For Management Studies

4. Minor in Economics for Management Studies - program of four full credits of Economics for Management Studies. This is an arts program. (See the Degree section of this Calendar for information on B.A. and B.Sc. degrees.) Described in detail below.

Note: Students may not be jointly enrolled in a program leading to a B.B.A. and in the Minor Program in Economics for Management Studies.

Other Programs with a substantial component of Economics for Management Studies:

5. Specialist in Management (B.B.A.) - a program emphasizing Management but including four full credits in Economics for Management Studies, leading to a B.B.A. degree. Described in detail in the Management section of this Calendar.

6. Specialist (Co-op) in Management (B.B.A.) - same as above, but also includes Co-op work terms.

7. Specialist or Major in International Development Studies or Major in Public Policy or Major in International Studies or Major in Health Studies within which students may choose to include a significant component from Economics for Management Studies. Described in detail elsewhere in this Calendar.

Admission to Programs in Economics for Management Studies and in Management

1. All students, both those who have been directly admitted into the Department from high school (and who are guaranteed admission into programs in the Department) and those admitted into programs in the Department, must apply to specific programs after four credits have been completed. Decisions are made on program admissions by the Supervisor of Studies only twice a year, in May and in August. These decisions are based on program requests which students submit to the Registrar (see the Registration Guide which is provided by the Registrar). Students should have ten full credits or less when they seek admission to programs in the Department of Management. Note that enrollment in ECMB102H, ECMB104H, ECMB111H, ECMB122H, ECMB132H, ECMB141H, ECMB142H, ECMB143H, and ECMB144H will be strictly limited to students enrolled in Specialist or Major programs in the Department of Management and, where possible, other students who meet criteria of academic merit.

2. Those students directly admitted into the Department from high school are guaranteed entry into a program in the Department (only a limited number of students not directly admitted in Co-op Programs will be accepted into Co-op programs after first year). Directly admitted students must maintain a CPA of 2.8 or greater after completing eight credits in order to remain in these programs.

3. Admission to the Minor Program in Economics for Management Studies is not limited. All students who apply for this program will be admitted. However, students are warned that they are not guaranteed admission to B-level and C-level courses, and thus will be accommodated only after other program students have been admitted to these courses. Thus many courses may be unavailable.

Economics for Management Studies Courses with Limited Enrolment

Students who have been admitted to Specialist and Major programs in the Department of Management are guaranteed access to enough courses in Economics for Management Studies to complete their programs. To protect that access, students must register early in the registration process. After a period in which program students are given priority, access to Economics for Management Studies courses will be allocated on the basis of 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.

SPECIALIST (CO-OPERATIVE) PROGRAM IN ECONOMICS FOR MANAGEMENT STUDIES (B.B.A.)

Supervisor of Studies: TBA Email: economics-supervisor-studies@utne.utoronto.ca

The Specialist/Co-operative program in Economics for Management Studies (B.B.A.,) is a work-study program which combines academic studies in economics and management with work experience in public and private enterprises. This degree is designed to allow students to learn practical skills of data analysis and to combine them with the interpretive skills given by knowledge of economic theory. For information on admission, work terms and curriculum requirements, please see the Co-operative Programs section and the Management section of this Calendar.

SPECIALIST PROGRAM IN ECONOMICS FOR MANAGEMENT STUDIES (B.B.A.)

Supervisor of Studies: TBA Email: economics-supervisor-studies@utne.utoronto.ca

This program will provide a specialization for those wishing for a substantial component of Economics in a Management degree leading to a Bachelor of Business Administration (B.B.A.). The students in this program may be seeking to prepare themselves for studies in Economics at the Masters' level. For more details and curriculum requirements, please refer to the Management section of this Calendar.

The Co-operative Program option of this program is a work-study program which combines academic studies in economics and management with work experience in public and private enterprises. It is designed to allow students to learn practical skills of data analysis and to combine them with the interpretive skills given by knowledge of economic theory. For information on admission, work terms, and curriculum requirements, please see the Co-operative Programs section and the Management section of this Calendar.
Program Admission
Note: Registration in this program is limited. If not directly admitted to the program from high school, students may apply to the program after first year. They must have completed a minimum of four credits at the University of Toronto with the required courses to be considered for this program. Required courses must include ECONA04H, ECONA05H, MACASA2H, MATASA3H (or equivalents). Students will be considered on the basis of cumulative GPA. For more details please refer to the Management section of this Calendar.

Program Requirements
For specific program requirements, see the Management section of this Calendar.

Students should be aware that the mathematics requirement implies that Grade 12 Calculus is a prerequisite for entry to this Program. Further, students who are considering graduate work in Economics should be aware that they should accumulate considerably more mathematics than the minimum required; they should consult the Supervisor of Studies in Economics for details.

Academic Assessment
Please refer to the Management section of this Calendar for rules on academic assessment for degrees leading to the B.B.A. All students pursuing a B.B.A. are assessed based on these rules.

Overall course load limit for B.B.A. students
Please refer to the Management section of this Calendar for rules on course load limits for B.B.A. students.

SPECIALIST PROGRAM IN POLITICAL SCIENCE AND ECONOMICS FOR MANAGEMENT STUDIES (B.A.)
This program has been withdrawn. Every attempt will be made to ensure that students enrolled are able to complete it. Other students interested in the program should consider combining the Major Program in Economics for Management Studies with the Major Program in Political Science.

MAJOR PROGRAM IN ECONOMICS FOR MANAGEMENT STUDIES (B.A.)
Supervisor of Studies: TBA. Email: economics-supervisor-studies@utoronto.ca
This Program is designed to give a coordinated exposure to the subject matter of Economics for Management Studies to students pursuing the four-year degree with more than a single area of concentration.

Program Admission
Note: Registration in this Program is limited.

Students must have completed a minimum of four full credits to be considered for this program. Students with 4-6 full credits will be considered on the basis of cumulative GPA including ECONA04H, ECONA05H, MACASA2H, MATASA3H. Students with 7-10 full credits will be considered on the basis of cumulative GPA including ECONA04H, ECONA05H, MACASA2H, MATASA3H and one of ECONB02H and ECONB06H. Students should be aware that the Mathematics requirement implies that Grade 12 Calculus is a requirement for entry into this program.

Note: Students in the B.B.A. may not jointly enrol in the Major Program in Economics for Management Studies.

Program Requirements
The Program consists of six full credits in Economics for Management Studies, one full credit in Mathematics and one full credit in Humanities. The Economics courses must include:

- ECONA04H & ECONA05H
- ECONB02H & ECONB06H
- [ECONB13H & ECONB12H] or [ECONB9Y]
- ECONC02H & ECONC06H
- ECONC11H
- Plus 1.5 full credits chosen from the courses in Economics for Management Studies including at least one at the C-level (not including ECONC91H, ECONC92H, ECONC93H).
- Students must also complete MACASA3H & MATASA3H (or equivalent) and one full credit in Humanities.

Note: Students who take ECONA01H and ECONA05H and then decide to apply for this program will be permitted to substitute [ECONA01H & ECONA05H] for [ECONA04H & ECONA05H]. However, these students will be required to complete [MACASA3H & MATASA3H] or equivalent before registering for ECONB02H and ECONB06H.
MINOR PROGRAM IN ECONOMICS FOR MANAGEMENT STUDIES (B.A.)

Supervisor of Students: TBA. Email: economics-supervisor-studies@smu.smu.edu ca

This program is designed to give exposure to the subject matter in some areas of Economics to students who will combine this minor with other programs in order to graduate. (See the Degrees section of this Calendar for information.) Students need not have completed Grade 12 Calculus in order to enter this program.

Program Admission

Note: Registration in this program is not limited and does not require training in Calculus. Students will note that some of the B and C level courses in Economics for Management Studies do require Calculus. Therefore, students signed up for the Minor Program must choose their courses carefully, ensuring that they have the necessary prerequisites.

Note: Students in the B.B.A. may not jointly enroll in the Minor Program in Economics for Management Studies.

Program Requirements

The program consists of four full credits in Economics for Management Studies as follows:
ECMA041H or ECMA048H
ECMA051H or ECMA061H
ECMB01H or ECMB02H
ECMB051H or ECMB061H

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 all B-level and C-level courses. New C-level courses have been developed (ECMC91H, ECMC92H & ECMC93H) and will be available to students in the minor program. Future additions available to students in the minor program are anticipated.

Note: Students may if they wish, count STAR22H, ANTC25H, PSYB07H or SOCI005H or a more advanced statistics course as one half credit B-level Economics course in the Minor Program in Economics for Management Studies. While not required, students are strongly encouraged to include a statistics course in the program.

ECMA041H 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 Specializations in Management and Economics leading to the B.B.A. or for the Major program in Economics.

Exclusion: ECMA049H, ECO100Y, ECO105Y

ECMA048H 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 Specializations in Management and Economics, the Specialist program in Economics for Management Studies, and the Major Program in Economics for Management Studies.

Exclusion: ECMA041H, ECO101Y, ECO105Y

Prerequisite: Grade 12 Calculus

Corequisite: It is strongly recommended that MATA13H & MATA14H be taken simultaneously with ECMA049H.

ECMA051H Introduction to Macroeconomics

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 Specializations in Management and Economics leading to the B.B.A. or for the Major program in Economics.

Exclusion: ECMA058H, ECO100Y, ECO105Y

ECMA061H 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: ECMA051H, ECO101Y, ECO105Y

Prerequisite: Grade 12 Calculus

Corequisite: It is strongly recommended that MATA13H & MATA14H be taken simultaneously with ECMA049H.

ECMB01H Price Theory

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. This course does not qualify as a credit for either the Major in Economics for Management Studies or for the B.B.A.

Limited enrolment: 120 per section

Exclusion: ECMB01H, ECO201Y, ECO204Y, ECO206Y

Prerequisite: [ECMA041H & ECMA048H] or [ECMA049H & ECMA055H]
ECMB820H3 Price Theory: A Mathematical Approach
Intermediate level development of the principles of microeconomic theory. The course will cover the same topics as ECMB811H, 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.
Limited enrolment: 80 per section.
Exclusion: ECMB811H, ECO200Y, ECO204Y, ECO206Y
Prerequisite: ECOMA40H1 & ECMA06H1 or [MATA32H1 & MATA33H1] or [MATA27H1]
Students who have completed ECOMA05H1 & ECMA05H1 & [MATA32H1 & MATA33H1] or [MATA27H1] may be admitted with the permission of the Supervisor of Studies.

ECMB850H3 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.
Limited enrolment: 120 per section
Exclusion: ECOM104H1, ECO202Y, ECO208Y, ECO209Y
Prerequisite: [ECMA04H1 & ECMA05H1] or [ECMA01H1 & ECMA05H1]

Intermediate level development of the principles of macroeconomic theory. The course will cover the same topics as ECMB850H3, 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.
Limited enrolment: 80 per section
Exclusion: ECOM105H1, ECO202Y, ECO208Y, ECO209Y
Prerequisite: [ECMA04H1 & ECMA05H1] or [MATA32H1 & MATA33H1]
Students who have completed ECOMA05H1 & ECMA05H1 & [MATA32H1 & MATA33H1] or [MATA27H1] may be admitted with the permission of the Supervisor of Studies.

ECMB901Y3 Quantitative Methods in Economics
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, hypothesis testing, simple and multiple regression. Enrolment is limited to students registered in programs requiring this course.
Limited enrolment: 80 per section
Exclusion: ECMB11H1, ECMB12H1, ECOMC39H1, ECO202Y, ECO207Y, PSYB10H1, SOCB10H1, STA302H1, STA327H1, STA328H, STA357H1, STA367H
Prerequisite: ECOMA04H1 & ECMA04H1 or [MATA32H1 & MATA33H1] or [MATA27H1]
Students who have completed ECOMA05H1 & ECMA05H1 & [MATA32H1 & MATA33H1] or [MATA27H1] may be admitted with the permission of the Supervisor of Studies.

ECMB111H3 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.
Limited enrolment: 120 per section
Exclusion: ECOMB99Y1, ANTEC35H1, ECO220Y, ECO227Y, PSYB10H1, SOCB10H1, STAB22H, STAB52H, STAB57H
Prerequisite: ECOMA04H1 & ECMA04H1 or [MATA32H1 & MATA33H1] or [MATA27H1]
Students who have completed ECOMA05H1 & ECMA05H1 & [MATA32H1 & MATA33H1] or [MATA27H1] may be admitted with the permission of the Supervisor of Studies.

ECMB121H3 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.
Limited enrolment: 80 per section
Exclusion: ECOMB99Y1, ECO220Y, ECO227Y, STAB22H, STAB57H
Note: STAB22H is not equivalent to ECMB112H
Prerequisite: [ECMB111H3 or [STAB52H1 & STAB57H1]] & [MATA32H1 & MATA33H1] or [MATA27H1]

ECMB301H3 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.
Limited enrolment: 60
Prerequisite: [ECMA04H1 & ECMA06H1] or [ECMA01H1 & ECMA05H1]

ECMB381H3 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.
Limited enrolment: 60
Prerequisite: [ECMA04H1 & ECMA06H1] or [ECMA01H1 & ECMA05H1]
Corequisite: ECOMB102H or ECOMB101H

ECMB869H3 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: [ECMA04H1 & ECMA06H1] or [ECMA01H1 & ECMA05H1]
Corequisite: ECMB811H or ECMB102H
ECMC02H3 Topics in Price Theory
Continuing development of the principles of microeconomic theory. This course will build on the theory developed in ECMB02H1. 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.
Limited enrolment: 80 per section
Exclusion: ECMC02H, ECO200Y, ECO204Y, ECO206Y
Prerequisite: ECMB02H & [MATA32H & MATA33H] or [MATA27H]

ECMC05H1 Topics in Macroeconomic Theory
Continuing development of the principles of macroeconomic theory. The course will build on the theory developed in ECMB06H. 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.
Limited enrolment: 80 per section
Exclusion: ECO205Y, ECO208Y, ECO209Y
Prerequisite: ECMB06H & [MATA32H & MATA33H] or [MATA27H]

ECMC11H3 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.
Limited enrolment: 60
Exclusion: (ECMB12H3, ECMC11H) may not be taken after or concurrently with STA301H or ECO327Y
Prerequisite: [ECMB11H & ECMB12H] or ECO209Y

ECMC12H3 Theory and Practice of Regression Analysis
This is an advanced course building on ECMC11H. Students will master regression theory, hypothesis and diagnostic tests, and assessment of econometric results. Treatment of special statistical problems will be discussed. Interactive computer-based assignments will provide experience in estimating and interpreting regressions, preparing students for ECMD39H. Enrolment is limited to students registered in programs requiring this course.
Limited enrolment: 30
Exclusion: ECO327Y, STA302H
Prerequisite: ECMB26H & ECMB06H & ([ECMB11H & ECMB12H] or ECO209Y) & ECMC11H

ECMC13H3 Advanced Microeconomic Theory
An upper level extension of the ideas studied in ECMC02H. 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.
Limited enrolment: 35
Exclusion: ECO206H
Prerequisite: [ECMB09Y or ECMB12H] & ECMC02H

ECMC14H3 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.
Limited enrolment: 35
Exclusion: ECO203H
Prerequisite: [ECMB09Y or ECMB12H] & ECMC04H

ECMC20H3 Economics of the Media
An examination of the role and importance of communications media in the economy. Topics to be covered include: the challenges media pose for conventional economic theory; historical and contemporary issues in media development; and basic media-research techniques. The course is research-oriented, involving empirical assignments and a research essay.
Limited enrolment: 60
Prerequisite: ECMB01H or ECMB02H

ECMC27H3 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 commentary.
Limited enrolment: 60 per section
Exclusion: ECO322Y, ECO429Y
Prerequisite: [ECMB01H or ECMB02H] & [ECMB03H or ECOB06]

ECMC31H3 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 patents for tax design.
Limited enrolment: 60
Exclusion: ECMC01HL, ECO306Y
Prerequisite: ECMB01H or ECMB02H

ECMC32H3 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.
Limited enrolment: 60
Exclusion: ECMC01H, ECO306Y
Prerequisite: ECMB01H or ECMB02H
ECMC3H3 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.
Limited enrolment: 60
Exclusion: ECO369H1, ECO369Y
Prerequisite: ECMB92H1 & (MATA32H1 & MATA33H1) or (MATA27H3)

ECMC3H3 Law and Economics
A study of laws and legal institutions from an economic perspective. Includes the development of a positive theory of the law suggesting that laws frequently evolve so as to maximize economic efficiency. The efficiency of various legal principles is examined. Topics covered are drawn from: externalities, property rights, contracts, torts, product liability and consumer protection, and procedure.
Limited enrolment: 60
Exclusion: ECO320H1, ECO320Y
Prerequisite: ECMB91H1 or ECMB92H1

ECMC3H3 The Economics of Canadian Public Policy
This course provides a comprehensive study of selected Canadian public policies from an economic point of view; topics may include environmental policy, competition policy, inflation and monetary policy, trade policy and others. We will study Canadian institutions, decision-making mechanisms, implementation procedures, policy rationales, and related issues.
Limited enrolment: 60
Exclusion: ECO330Y
Prerequisite: [ECMB91H1 or ECMB92H1] & [ECMB95H1 or ECO360H1]

ECMC4H3 Economics of Organisation and Management
Covers 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, commercial theory, risk sharing, property rights, corporate financial structure, and vertical integration.
Limited enrolment: 60
Exclusion: ECO310Y, ECO31WY, ECO31H1, ECO32H1
Prerequisite: ECMB91H1 or ECMB92H1

ECMC4H3 Industrial Organisation
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.
Limited enrolment: 60
Exclusion: ECO310H1, ECO310Y
Prerequisite: ECMB92H1

ECMC4H3 The Economics of the Internet and E-Commerce
The Internet is rapidly changing communications, access to information, and commerce. This course will explore key issues associated with the development of the Internet and E-commerce, including business strategy, pricing, intellectual property rights, government regulation and taxation. Students are advised that there is a substantial amount of reading required for this course.
Limited enrolment: 60
Prerequisite: ECMB91H1 or ECMB92H1

ECMC4H3 Organization Strategies
Examines the issue of outsourcing, broadly defined: 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.
Limited enrolment: 60
Prerequisite: ECMB92H1 & [ECMC40H1 or ECMC41H1]

ECMC4H3 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, the government will be considered.
Limited enrolment: 60 per section
Prerequisite: ECMB91H1 or ECMB92H1

ECMC4H3 Financial Economics
This course introduces students to the theoretical underpinnings of financial economics. Topics covered include: intertemporal choice, expected utility, the CAPM, cost of capital; use of debt by the firm; dividend policy; market efficiency, the term structure of interest rates, and option pricing models. Key empirical tests are also reviewed.
Limited enrolment: 60
Exclusion: ECO358H
Prerequisite: [ECMB92H1] & [ECMB96H1] & [ECMB12H1 or ECMB90Y1]

ECMC5H3 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 implications will include: income maintenance programs; minimum wages; unemployment.
Limited enrolment: 60
Exclusion: ECO33WY, ECO33Y, ECO36Y
Prerequisite: ECMC402H

ECMC5H3 Labour Economics II
A continuation of ECMC5H3. Topics covered will include: union; wage structures; sex and race discrimination; human capital theory; investment in education. Policy issues discussed will include: pay equity; affirmative action; training initiatives; migration.
Limited enrolment: 60
Exclusion: ECO33WY, ECO33Y, ECO36Y
Prerequisite: ECMC51H1 & ECMB82H1 & [ECMB12H1 or ECMB90Y1]
ECMC54H3 Economics of the Family
This course studies the economic aspects of how families make decisions - about employment, child care, having children. In particular, we study how women's decisions are affected by children and the need to care for them. We study how public policies affect the decisions of family members, and discuss how family policy can be improved. Limited enrolment: 60
Exclusion: ECO332YH
Prerequisite: ECM9B02H

ECMC58H3 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. Limited enrolment: 60
Exclusion: ECM9C5QH, ECO939Y
Prerequisite: ECM9B02H

ECMC61H3 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. Limited enrolment: 60
Exclusion: ECO923YH, ECO923Y, ECO936H
Prerequisite: ECM9B06H or ECM9B06H

ECMC62H3 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. Limited enrolment: 60
Exclusion: ECM9C3QH, ECO937Y, ECO936Y, ECO936H
Prerequisite: ECM9B06H or ECM9B06H

ECMC63H3 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 analyse several major episodes of financial crises, such as Latin America in the 1980s; East Asia, Europe, Mexico and Russia in the 1990s; and Turkey and Argentina in recent years. Limited enrolment: 60
Prerequisite: ECM9C61H

ECMC66H3 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. Limited enrolment: 60
Exclusion: ECO932Y
Prerequisite: ECM9B06H or ECM9B06H

ECMC67H3 Development Policy
A consideration of how government policy can affect the pace and pattern of development in Third World countries. Emphasis will be on the most important policies including those relating to rural organization, agricultural goods markets, labour markets, credit markets, land rights systems, income distribution and technological change. Limited enrolment: 60
Exclusion: ECO932Y
Prerequisite: ECM9C66H

ECMC80H3 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. Limited enrolment: 60 per section
Exclusion: ECO932Y
Prerequisite: ECM9B06H or ECM9B06H or ECM9B06H

ECMC91H3 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 and of the Specialist Program in Political Science and 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.
Exclusion: ECM9C31H, ECM9C32H, ECO936Y
Prerequisite: ECM9B06H or ECM9B06H
ECM302H Economics of Markets and Pricing
The course builds on ECMB01H (or ECMB02H) 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 and of the Specialist Program in Political Science and 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. Exclusion: ECMC302H, ECMC431H, ECO200Y, ECO204Y, ECO209Y, ECO310Y
Prerequisite: ECMB09H or ECBM02H

ECM339H 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 and of the Specialist Program in Political Science and 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. Exclusion: ECMC302H, ECO209Y, ECO312Y
Prerequisite: [ECMB09H or ECMC02H] & [ECMB05H or ECO306H]

English
(B.A.)

Faculty List
R.M. Brown, M.A., Ph.D. (Binghamton), Professor Emeritus
M.C. Cuddy-Kean, M.A., Ph.D. (Toronto), Professor
G. Leonard, M.A., Ph.D. (Florida), Professor
C. Bolsm-Reichert, M.A., Ph.D. (Indiana), Associate Professor
N. Dolan, M.A., Ph.D. (Harvard), Associate Professor
M.B. Goldman, M.A., (Victoria), Ph.D. (Toronto), Associate Professor
S. Lamb, M.A., Ph.D. (Toronto), Associate Professor
N. Ten Koren, M.A., Ph.D. (Toronto), Associate Professor
A. Dufour, Ph.D. (Harvard), Assistant Professor
K.R. larvae, M.Phil., M.Sc. (Oxford), Ph.D. (Toronto), Assistant Professor
A. Martino, M.A., Ph.D. (Cornell), Assistant Professor
J. Pearl, M.A. (Aberdeen), Ph.D. (Toronto), Assistant Professor
M. Roberts, A.B. (Yale), M.A. (Missouri-Columbia), Ph.D. (Michigan), Assistant Professor
M. Antif, B.A. (Hassan II), M.A., Ph.D. (Case Western Reserve), Lecturer
S.D. King, M.A., Ph.D. (Western), Lecturer

Program Director: C. Bolsm-Reichert (416-287-7182)
Email: english-program-supervisor@utsc.utoronto.ca

The discipline of English involves not only the study of the great works of literature but also training in responding to the complex modes of interpretation and communication that are inevitable in our increasingly media-saturated world. At UTSC, the curriculum
offers courses in the English-language literatures of Britain, Canada, America, and other areas of the world. All courses place emphasis on close responsive reading, critical thinking, and clarity of expression.

A-level courses introduce students to the study of English at the university level. ENGA10H and ENGA11H are designed both for students wanting an introductory course in the Specialist, Major, or Minor Program in English and for students having a general interest in literature or the twentieth century.

ENGB03H, ENGB04H, and ENGB05H are required for all English Programs. B-level courses have no prerequisites and are available both to beginning and to more advanced students.

C-level courses, as their prerequisites indicate, are designed to build upon previous work and presuppose some background in critical skills and some familiarity with the subject matter.

D-level courses provide opportunities for more sophisticated study and require some independent work on the part of the student. These courses are generally restricted in enrollment and may involve the presentation of seminars.

Students are advised to check the prerequisites for C- and D-level courses when planning their individual programs, and to consult with the Program Supervisor or the Program Director before taking courses on other campuses.

Students planning to pursue graduate studies in English are advised to consult the Supervisor of Studies about appropriate programs of study.

The English Study Guide is available at:  http://www.unc.utoronto.ca/humdiv/English/studyguide/index.htm

Guidelines for 1st year course selection

First-year students often take ENGA10H or ENGA11H (or both) as an introduction to university-level English studies. Students intending to complete the Specialist or Major Program in English should plan to take at least two of ENGB03H, ENGB04H & ENGB05H early in their university career. They may, if they so choose, begin satisfying these B-level English requirements in their first year. Students are strongly encouraged to take HUMA00H (Exploring Key Questions in Humanities) as early as possible in their studies.

Note: For Co-op opportunities related to the Specialist and Major Programs in English, please see the Humanities section of this Calendar.

SPECIALIST PROGRAM IN ENGLISH
Program Supervisor: A. Maurice (416-287-7180) Email: english-program-supervisor@unc.utoronto.ca

Program Requirements
10.5 credits in English are required. They should be selected as follows:

1. ENGB03H Critical Thinking About Narrative
2. ENGB04H Critical Thinking About Poetry
3. ENGB05H Critical Reading about Literature
4. 3.0 credits from courses whose content is pre-1900
5. 0.5 credits in Canadian literature
6. 5.5 additional credits in English

Among the 10.5 credits required for the Specialist, at least 3 full credits must be at the C-level and 1 full credit at the D-level

Note: Students may count no more than one of the following courses towards the Specialist requirements:
ENGB35H Children's Literature
ENGB36H Detective Fiction
ENGB41H Science Fiction

Students may count no more than one full credit of advanced creative writing (ENGW65Y, ENGW67H, ENGW69H) and no more than one full credit of D-level independent study (ENGD97H, ENGD98Y, ENGD99H) towards an English program. The following courses do not count towards any English programs: ENGL100H, ENGL115Y.

MAJOR PROGRAM IN ENGLISH
Program Supervisor: A. Maurice (416-287-7180) Email: english-program-supervisor@unc.utoronto.ca

Program Requirements
7.5 credits in English are required. They should be selected as follows:

1. ENGB03H Critical Thinking About Narrative
2. ENGB04H Critical Thinking About Poetry
3. ENGB05H Critical Reading about Literature
4. 2.0 credits from courses whose content is pre-1900
5. 4.0 additional credits in English

Among the 7.5 credits required for the Major as outlined above, at least two full credits must be at the C- or D-level

Note: Students may count no more than one of the following courses towards the Major requirements:
ENGB35H Children’s Literature
ENGB36H Detective Fiction
ENGB41H Science Fiction
Students may count no more than one full credit of advanced creative writing (ENGc66Y, ENGc67H, ENGc68H) and no more than one full credit of D-level independent study (ENGd97H, ENGd98Y, ENGd99H) towards an English program. The following courses do not count towards any English programs: ENG100H, ENG185Y.

**MINOR PROGRAM IN ENGLISH LITERATURE**

**Program Supervisor:** A. Mauro (416-287-7180) Email: english.program.supervisor@utoronto.ca

**Program Requirements**

Four credits in English are required. They should be selected as follows:

1. **ENGb03H1** Critical Thinking About Narrative
   - An exploration of how literature reflects the artistic and cultural concerns that shaped the first part of the twentieth century. An introduction to university-level critical reading and interpretation, this course will examine the writing of early twentieth-century men and women. Exclusion: ENG140Y

2. **ENGa11H1** Introduction to Literary Study: 1945 to Today
   - An exploration of how literature reflects the artistic and cultural concerns that shaped the world after the Second World War. An introduction to university-level critical reading and interpretation, this course will examine the writing of late twentieth-century men and women from a range of backgrounds and nationalities. Exclusion: ENG140Y

3. **ENGb05H1** Critical Thinking About Narrative
   - An introduction to the literary analysis of narrative. This course will study closely a small number of narratives and narrative genres from different periods in order to develop the critical skills to analyse narratives. Exclusion: (ENGb01Y), ENG110Y

4. **ENGb04H1** Critical Thinking About Poetry
   - An introduction to the literary analysis of poetry. This course will study closely poems and poetic forms from different periods in order to develop the critical skills to analyse poetry. Exclusion: ENG201Y

5. **ENGb06H1** Critical Writing about Literature
   - Intensive training in critical writing about literature. Students learn essay-writing skills (explication; organization and argumentation; research techniques; bibliographies and MLA-style citation) necessary for the study of English at the university level through group workshops, multiple short papers, and a major research-based paper. This is not a grammar course; students are expected to enter with solid English literacy skills. Limited enrolment: 25 per section. Exclusion: (ENGb01H), (ENGb02H)

6. **ENGb08H1** Canadian Literary Traditions
   - An examination of large issues and themes that have shaped Canadian literature. Focusing on the development and emergence of a Canadian literary tradition, this course examines the problems of writing in a New World nation, the emergence and definition of an indigenous tradition, and the challenges such a tradition faces. Exclusion: ENG252Y

7. **ENGb07H1** Nation in Canadian Writing
   - An examination of the formation of identity, of a sense of belonging; and of the problematic of nationalhood in Canadian writing. Exclusion: ENG252Y

8. **ENGb01H1** Collisions of Culture and the Emergence of a Liberal Nation
   - 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-1800 course Exclusion: ENG250Y

9. **ENGb02H1** American Literature from the Civil War to the Present
   - An introductory survey of major novels, short fiction, poetry, and drama from The Adventures of Huckleberry Finn to Risa Dove's Thorens and Residual, with an emphasis on themes of immigration, ethnicity, modernization, individualism, class, and community. Exclusion: ENG250Y Prerequisite: ENGb08H
ENGB123H1 Life Writing
Life-writing, whether formal biography, chatty memoir, postmodern bastard, or published personal journal, is popular with writers and readers alike. This course introduces students to life-writing as a literary genre and explores major issues such as life-writing and fiction, life-writing and history, the contract between writer and reader, and gender and life-writing.
Exclusion: ENG232H1

ENGB143H1 Twentieth-Century Drama
A study of major plays and playwrights of the twentieth century. This international survey might include turn-of-the-century works by Wilde or Shaw; mid-century drama by Beckett, ONeill, Albee, or Miller; and later twentieth-century plays by Harold Pinter, Tom Stoppard, Caryl Churchill, Peter Shaffer, August Wilson, Tom Stoppard, David Hare, or Athol Fugard.
Exclusion: ENG340H1, ENG434H1, ENG342H1, (ENG113H1), (ENG113H1), (ENG338Y1), (ENG339H1)

ENGB173H3 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: ENG253Y, NEW223Y

ENGB193H3 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 making the novel South Asian.
Exclusion: ENG253Y

ENGB253H1 The Canadian Short Story
A study of the Canadian short story. The Canadian short story has been vital to the Canadian literary tradition and has produced writers of international stature, including Munro, Atwood, Laurence, and Gifford.
Exclusion: ENG2215H

ENGB323H3 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-1500 course.
Exclusion: ENG220Y1, (ENG180Y1)

ENGB333H3 Shakespeare in Context II
A continuation of ENGB323H, this course introduces students to selected dramatic comedies, tragedies and romances and situates Shakespeare's work in 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: (ENG110H1), ENG220Y1
Recommended preparation: ENGB323H

ENGB343H3 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: ENG231H1

ENGB353H3 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 authorship, creativity, race, class, gender, and nationhood.
Exclusion: ENG234H1

ENGB355H3 Detective Fiction
A study of the evolution and forms of detective fiction. This course examines the formal rules that govern detective fiction - a mainstay of mass media and a genre that has influenced literature and the social contexts that make this a genre that has cut across classes, cultures, and continents.
Exclusion: ENG234H1

ENGB414H1 Science Fiction
An examination of the genre of science fiction. This course will look at different forms of this genre (novels, short stories, and films), emphasizing the way a popular genre comes into being, the effect on the form of innovation, and the interaction that exists between science fiction and literary writing.
Exclusion: ENG237H1

ENGB590H3 Women and Literature: Forging a Tradition
An examination of the development of a women's tradition of writing. This course considers the legacy and impact of writers such as Mary Wollstonecraft, Mary Shelley, Jane Austen, Charlotte Brontë and Virginia Woolf.
Exclusion: ENG233Y1

ENGB515H3 Gender and Genre
An analysis of the role of gender in fiction, poetry and drama. This course will examine such things as the genres women have gravitated toward and excelled at in the light of Woolf's claim that the novel was the genre most accessible to women because it was not entirely formed.
ENGB60H3 Creative Writing: Poetry
An introduction to the writing of poetry. This course will provide an introduction to the writing of poetry through workshop sessions. Admission by portfolio. Portfolios for students seeking admission should be left with the Humanities departmental assistant in H525A no later than the first Monday of October. They should contain a selected sample (5-15 pp.) of your strongest writing, which could include fiction, poems or essays. Do not include originals.
Limited enrollment: 20
Exclusion: ENG369Y

ENGB61H3 Creative Writing: Fiction
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. Portfolios for students seeking admission should be left with the Humanities departmental assistant in H525A no later than the first Monday of October. They should contain a selected sample (5-15 pp.) of your strongest writing, which could include fiction, poems or essays. Do not include originals.
Limited enrollment: 20
Exclusion: ENG369Y

ENGB62H3 Creative Writing: Scripts and Drama
This course provides an introduction to script-writing through intensive workshop sessions. Admission by portfolio. Portfolios for students seeking admission should be left with the Humanities departmental assistant in H525A no later than the first Monday of October. They should contain a selected sample (5-15 pp.) of your strongest writing, which could include fiction, poems or essays. Do not include originals.
Limited enrollment: 20

ENGB64H3 Native North American Literature
An introduction to Native North American writing with an emphasis on First Nations literature and culture of the last 30 years. Dealing with the literatures of a broad range of peoples and a wide variety of genres and styles, students will explore such issues as identity, representation, transmission, and translation.
Exclusion: ENG254Y

ENGB70H3 Introduction to Cinema
An introduction to the critical study of cinema, including films from a broad range of genres, countries, and eras, as well as readings representing the major critical approaches to cinema that have developed over the past century.
Exclusion: INT115Y

ENGB75H3 Cinema & Modernity I
An investigation of film genres such as melodrama, film noir, and the western from 1895 to the present. We will look at the creation of an ideological space and of new mythologies that helped organize the experience of modern life. Works of twentieth-century prose and poetry will also be studied.

ENGB76H3 Cinema & Modernity II
An investigation of film genres such as romance, gothic, and science fiction from 1895 to the present. We will look at the way cinema developed and created new mythologies that helped people organize the experience of modern life. Works of twentieth-century prose and poetry will also be studied.
Exclusion: ENG258H

ENGC32H3 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.
Limited enrollment: 50
Prerequisite: [ENGB03H & ENGB04H & one of ENGB03H or (ENGB01H) & (ENGB02H)] or [ENGB06H or ENGB07H]

ENGC33H3 Studies 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 problematic of representation for marginalized societies, groups, and identities.
Limited enrollment: 50
Exclusion: ENG216Y
Prerequisite: [ENGB03H & ENGB04H & one of ENGB05H or (ENGB03H) & (ENGB02H)] or [ENGB06H or ENGB07H]

ENGC19H3 Studies in Shakespeare
A study of the plays of Shakespeare. An in-depth study of select plays from Shakespeare's dramatic corpus combined with an introduction to the critical debates within Shakespeare studies. Students will gain a richer understanding of Shakespeare's texts and their critical reception.
Pre-1900 course
Limited enrollment: 50
Exclusion: ENG226Y
Prerequisite: [ENGB03H & ENGB04H & one of ENGB05H or (ENGB03H) & (ENGB02H)] or [ENGB06H]

ENGC12H3 Individualism and Community in Classic 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.
Limited enrollment: 50
Prerequisite: [ENGB03H & ENGB04H & (one of ENGB05H or (ENGB01H) or (ENGB02H))]

ENGC13H3 Ethnic Traditions in American Literature
A survey of the literature of Native Peoples, Africans, Irish, Jews, Italians, Latinos, and East Asians in the U.S., focusing on one or two groups each term. We will look at how writers of each group register the affective costs of the transition from "old-world" communalism to "new-world" individualism.
Limited enrollment: 50
Prerequisite: [ENGB03H & ENGB04H & one of ENGB05H or (ENGB01H) or (ENGB02H)) or [ENGB08H or ENGB09H].
ENGCI1H3 Concepts in Literary History
A study of the concepts and methodologies of literary history. This introduction to the development and practice of literary history will consider artistic and intellectual movements, the concepts and difficulties of periodization; the political, social, and cultural imperatives of literary canonization; and the history of English as a discipline.
Pre-1900 course
Limited enrolment: 50
Prerequisite: ENGB03H & ENGB04H & [one of ENGB05H or (ENGB01H) or (ENGB02H)]

ENGCI15H3 Concepts in Literary Criticism
A study of selected topics in literary criticism.
Limited enrolment: 50
Exclusion: ENGC26H1
Prerequisite: ENGB03H & ENGB04H & [one of ENGB05H or (ENGB01H) or (ENGB02H)]

ENGCI16H3 The Bible and Literature I
Literary analysis of the Hebrew Bible (Christian Old Testament) and its profound influence on literature. This course considers both the literary nature of and the influence on literature of such narratives as the fall of Adam and Eve, Noah's flood, Abraham's binding of Isaac, and the story of Moses, The Song of Solomon, Job, Jonah, Jeremiah.
Pre-1900 course
Limited enrolment: 50
Exclusion: (ENGJ42H3), ENGO20Y
Prerequisite: ENGB03H & ENGB04H & [one of ENGB05H or (ENGB01H) or (ENGB02H)]

ENGCI17H3 The Bible and Literature II
Literary analysis of the narratives and other literary forms in the New Testament, and extended consideration of selected literary texts that the New Testament has influenced.
Pre-1900 course
Limited enrolment: 50
Exclusion: (ENGB45H3), ENGO20Y
Prerequisite: ENGB10H or (ENGB24H1)

ENGCG20H3 Victorian Poetry and Prose
An introduction to the poetry and non-fiction prose of the Victorian period, 1837-1901. Representative authors will be studied in the context of a culture in transition, in which questions about democracy, the rights of women, national identity, imperialism, science and religion, and the place of the arts in everyday life were prominent.
Pre-1900 course
Limited enrolment: 50
Exclusion: ENGC347Y & (ENG312Y)
Prerequisite: ENGB03H & ENGB04H & [one of ENGB05H or (ENGB01H) or (ENGB02H)]

ENGCG21H3 The Victorian Novel to 1880
A study of major works of Victorian fiction, 1830-1860. This course focuses on the development of the realistic novel in its social context. Authors studied might include Charles Dickens, William Makepeace Thackeray, the Bronte sisters, Anthony Trollope and Elizabeth Gaskell.
Pre-1900 course
Limited enrolment: 50
Exclusion: (ENG324Y), ENGC32H1
Prerequisite: ENGB03H & ENGB04H & [one of ENGB05H or (ENGB01H) or (ENGB02H)]

ENGCG22H3 The Victorian Novel after 1880
A study of major works of Victorian fiction, 1860-1901. This course examines the emergence of the sensation novel, fantasy and science fiction, and high Victorian realism. Authors studied might include George Eliot, Wilkie Collins, George MacDonald, Thomas Hardy, Robert Louis Stevenson, H.G. Wells, Joseph Conrad, and Rudyard Kipling.
Pre-1900 course
Limited enrolment: 50
Exclusion: (ENG324Y)
Prerequisite: ENGB03H & ENGB04H & [one of ENGB05H or (ENGB01H) or (ENGB02H)]

ENGCG23H3 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).
Limited enrolment: 50
Exclusion: (ENG339H)
Prerequisite: ENGB03H & ENGB04H & [one of ENGB05H or (ENGB01H) or (ENGB02H)]

ENGCG26H3 Drama: Tragedy
An exploration of major dramatic tragedies in the classic and English tradition. Tragedy has been thought of as one of the earliest and most profound literary forms, having ritual and philosophical implications and inspiring theoretical treatises beginning with Aristotle's Poetics.
Pre-1900 course
Limited enrolment: 50
Prerequisite: ENGB03H & ENGB04H & [one of ENGB05H or (ENGB01H) or (ENGB02H)]
Alternative prerequisites: VPDB101H & VPDB111H

ENGCG27H3 Drama: Comedy
An historical exploration of comedy as a major form of dramatic expression. Theatrical comedy has been thought of as having social as well as literary dimensions (healing rifts; providing carnivalesque escape; mocking folly).
Pre-1900 course
Limited enrolment: 50
Prerequisite: ENGB03H & ENGB04H & [one of ENGB05H or (ENGB01H) or (ENGB02H)]
Alternative prerequisites: VPDB101H & VPDB111H
ENGC39H3 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 bawdy humour through subtle social satire to moral fable.
Pre-1900 course
Limited enrolment: 50
Exclusion: ENGL20Y
Prerequisite: ENGB03H1 & ENGB04H1 & [one of ENGB05H1 or (ENGB01H1) or (ENGB02H1)]

ENGC30H3 Topics in Medieval Literature
A study of selected medieval texts by one or more authors.
Pre-1900 course
Limited enrolment: 50
Exclusion: ENGL33H1
Prerequisite: ENGB03H1 & ENGB04H1 & [one of ENGB05H1 or (ENGB01H1) or (ENGB02H1)]

ENGC31H3 The Romance: In Quest of the Marvelous
A study of the romance as genre. The romance as episodic tale of marvelous adventures and questing heroes has 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
Limited enrolment: 50
Prerequisite: ENGB03H1 & ENGB04H1 & [one of ENGB05H1 or (ENGB01H1) or (ENGB02H1)]

ENGC32H3 The Golden Age: Elizabethan Literature
A study of the poetry, prose, and drama written in English throughout the Age of Queen Elizabeth I. We will explore innovations in poetic and dramatic forms, shifts in ideological tensions in religious and social life, emerging forms for narrating the exchange between Old worlds and New, and conflicts regarding the place of a female ruler on the world’s political stage. Pre-1900 course.
Limited enrolment: 50
Exclusion: ENGL20Y
Prerequisite: ENGB03H1 & ENGB04H1 & [one of ENGB05H1 or (ENGB01H1) or (ENGB02H1)]

ENGC33H3 Literature of Decadent and Dissent, 1603-1860
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
Limited enrolment: 50
Exclusion: ENGL34Y
Prerequisite: ENGB03H1 & ENGB04H1 & [one of ENGB05H1 or (ENGB01H1) or (ENGB02H1)]

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
Limited enrolment: 50
Exclusion: ENGL30Y
Prerequisite: ENGB03H1 or [ENGB05H1 & ENGB04H1 & one of ENGB05H1 or (ENGB01H1) or (ENGB02H1)]

ENGC33H3 Imagined Communities in Early Modern England, 1500-1700
A study of the real and imagined multiculturalism of early modern English life. How did English encounters and exchanges with people, products, languages, and material culture from around the globe redefine ideas of national, ethnic, and racial community? In exploring this question, we will consider drama, poetry, travel journals, autobiography, letters, cookbooks, costume books, and maps.
Pre-1900 course
Limited enrolment: 50
Exclusion: ENGL30Y
Prerequisite: ENGB03H1 & ENGB04H1 & [one of ENGB05H1 or (ENGB01H1) or (ENGB02H1)]
Recomended preparation: [ENGB02H1 or ENGB03H1] & [ENGB10H1 or ENGC32H1 or ENGC33H1]

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
Limited enrolment: 50
Exclusion: ENGL30Y
Prerequisite: ENGB03H1 & ENGB04H1 & [either ENGB05H1 or (ENGB01H1) & (ENGB02H1)]

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, Yearly, Blake, and Wordsworth.
Pre-1900 course
Limited enrolment: 50
Exclusion: ENGL30Y
Prerequisite: ENGB03H1 & ENGB04H1 & [one of ENGB05H1 or (ENGB01H1) or (ENGB02H1)]
ENG3C8H3 Novel Genres: Fiction, Journalism, News, and Autobiography, 1640-1700
As 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
Limited enrolment: 50
Exclusion: ENG322Y
Prerequisite: ENGIB03H & ENGIB04H & [one of ENGIB05H or (ENGIB01H) or (ENGIB02H)]

ENG3C9H3 The Early Novel in Context, 1740-1830
A contextual study of the first fictions that contemporaries recognized as being the novel. We will examine the novel in the context of its readers; its neighbouring genres such as letters, non-fiction travel writing, conduct manuals, and of culture more generally. Authors might include Richardson, Fielding, Sterne, Burney, Austen and others.
Pre-1900 course
Limited enrolment: 50
Exclusion: ENG322Y
Prerequisite: ENGIB03H & ENGIB04H & [one of ENGIB05H or (ENGIB01H) or (ENGIB02H)]

ENG4C2H3 Romanticism
A study of the Romantic Movement in European literature, 1755-1830. 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 enriched with study of the philosophical and historical backgrounds of Romanticism.
Pre-1900 course
Limited enrolment: 50
Exclusion: ENG303Y
Prerequisite: ENGIB03H & ENGIB04H & [one of ENGIB05H or (ENGIB01H) or (ENGIB02H)]

ENG4C4H3 Modern Poetry
A study of poetry written roughly between the World Wars. Poets from several nations may be considered. Topics to be treated include Modernism, 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.
Limited enrolment: 50
Prerequisite: ENGIB03H & ENGIB04H & [one of ENGIB05H or (ENGIB01H) or (ENGIB02H)]

ENG4C9H3 The American Renaissance
Study of the works of the remarkable literary efflorescence in the U.S. running from the publication of Emerson’s "Nature" in 1836 to the outbreak of the Civil War in 1860. Authors to be considered include Emerson, Thoreau, Whitman, Melville, Hawthorne, Dickinson, Stowe, Douglass, and Lincoln.
Pre-1900 course
Limited enrolment: 50
Exclusion: ENG334Y
Prerequisite: [ENGIB03H & ENGIB04H & [one of ENGIB05H or (ENGIB01H) or (ENGIB02H)]) & [ENGIB08H or (ENGIB09H)]

ENG5C9H3 Studies in Contemporary American Fiction
Developments in American fiction from the end of the 1950s to the present. A study of fiction from the period that produced James Baldwin, Saul Bellow, Philip Roth, John Updike, Norman Mailer, Ann Beatty, Raymond Carver, Don DeLillo, Toni Morrison, Maxine Hong Kingston, and Leslie Marmon Silko. The course may be organized around themes or movements.
Limited enrolment: 50
Exclusion: ENG336Y
Prerequisite: [ENGIB03H & ENGIB04H & [one of ENGIB05H or (ENGIB01H) or (ENGIB02H)]) & [ENGIB08H or (ENGIB09H)]

ENG5C5H3 Contemporary Arab Woman Writers
A study of Arab women writers from the late nineteenth century to the present. Their novels, short stories, essays, poems, and memoirs invite us to rethink western perceptions of Arab women; therefore, issues of gender, religion, class, nationalism, and colonialism will be examined from Arab women’s perspectives, from both the Arab world and North America.
Limited enrolment: 50
Prerequisite: ENGIB03H & ENGIB04H & [one of ENGIB05H or (ENGIB01H) or (ENGIB02H)]

ENG5C6H3 Literature and Media: From Page to Screen
Written literature and film and television. What happens when literary works are read as visual media (including the effects of rewriting, reproduction, adaptation, serialization and serialization)?
Limited enrolment: 50
Prerequisite: ENGIB03H & ENGIB04H & [one of ENGIB05H or (ENGIB01H) or (ENGIB02H)]

ENG5C7H3 The Graphic Novel
A study of extended narratives in the comic book form. Emphasis on formal analysis of narrative artwork combined 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.
Limited enrolment: 50
Exclusion: ENG235Y
Prerequisite: ENGIB03H & ENGIB04H & [one of ENGIB05H or (ENGIB01H) or (ENGIB02H)]]
ENGC58H3 Classical Myth and Literature

An analysis of the relationship between classical myth and literature. This course examines classical Greek and Roman myth in relationship to English literary works.

Pre-1900 Course

Limited enrolment: 50
Exclusion: (ENGC60H3), (ENGC61H3)
Prerequisite: ENGB03H1 & ENGB04H1 & [one of ENGB05H1 or (ENGB01H1) or (ENGB02H1)]

ENGC59H3 The Myth of the West in American Literature

The "West" as myth and a metaphor in the shaping of American identity. This examination of written narratives and films will focus on the construction of the American West, the relationship of the "Indian" to Native writers, and contemporary efforts to de-romanticize the West.

Limited enrolment: 50
Prerequisite: ENGB08H1 & ENGB09H1 & [one of ENGB05H1 or (ENGB01H1) or (ENGB02H1)]

ENGC60H3 Studies in Travel Literature before 1830

An examination of the genres of travel literature before 1830. Focus may change yearly and will include: travel literature by women or other marginalized groups such as servants and slaves; exploration literature; literature of imperial or colonial travel; travel literature by nouveaux; pilgrimage; fictional travel.

Pre-1900 course

Limited enrolment: 50
Prerequisite: ENGB03H1 & ENGB04H1 & [one of ENGB05H1 or (ENGB01H1) or (ENGB02H1)]

ENGC66Y3 ENGC67H3

ENGC68H3 Independent Studies: Creative Writing

An opportunity for students who have excelled in introductory creative writing to pursue independent study. Students should discuss their interests in advance with an appropriate faculty member. Note: Students may count no more than 1.0 full credits of independent study in creative writing towards an English program.

Exclusion: ENGC69Y1
Prerequisite: [ENGB08H1 or ENGB11H1 or ENGB26H1] & permission of the instructor.

ENGC69H3 Gothic Literature

A study of the Gothic tradition in literature since 1760. "Gothic" is a dark style in the arts, a language of terror, recognizable by allusions to ruined castles, graveyards, sublime landscapes, religious superstition, and plots involving imprisonment and torture, nightmares of the unconscious mind, and monstrous deformities of the human body.

Pre-1900 course

Limited enrolment: 50
Prerequisite: ENGB08H1 & ENGB04H1 & [one of ENGB05H1 or (ENGB01H1) or (ENGB02H1)]

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 literature of several ethnic communities in at least three nations, the United States, Britain, and Canada.

Limited enrolment: 50
Prerequisite: ENGB03H1 & ENGB04H1 & [one of ENGB05H1 or (ENGB01H1) or (ENGB02H1)]

ENGC71H3 The Immigrant Experience in Literature since 1980

A continuation of ENGC70H3, focusing on texts written since 1980.

Limited enrolment: 50
Prerequisite: ENGB03H1 & ENGB04H1 & [one of ENGB05H1 or (ENGB01H1) or (ENGB02H1)] & ENGC70H3

ENGC72H3 Contemporary Literature from Africa

A study of fiction, drama, and poetry from English-speaking Africa. The course will examine the relation of English-language writing to indigenous languages, to orality, and to audience, as well as the issues of creating art in a world of suffering and of de-colonizing the narrative of history.

Limited enrolment: 50
Exclusion: ENGC237Y
Prerequisite: ENGB03H1 & ENGB04H1 & [one of ENGB05H1 or (ENGB01H1) or (ENGB02H1)] & AFS10H1

ENGC76H3 The Body in Modernity: Theories and Representations

An interdisciplined course about the body in art, film, photography, narrative and popular culture. How bodies are written or visualized as "feminine" or "masculine", as heroic, in representing normality or perversion, beauty or monstrosity, legitimacy or illegitimacy, nature or culture. Same as FVAC47H1.

Limited enrolment: 45
Exclusion: VPAC47H1, VPHC47H1
Corequisite: Two full credits at the B-level or above from ENG, WST, VPA, VPH, and/or VPS, or permission of the instructor.

ENGC77H3 The Body in Contemporary Culture: Theories and Representations

A course focusing on the experience of the body in the public spaces of the modern city and in cyberspace. Of special interest will be the viewpoints of artists, writers, and filmmakers who explore how the "other" is constructed in terms of class, culture, and ethnicity. Same as VPAC48H1.

Exclusion: VPAC48H1, VPHC48H1
Corequisite: Two full credits at the B level or above from ENG, WST, VPA, VPH, and/or VPS, or permission of the instructor.

ENGC78H3 Dystopian Visions in Fiction and Film

Negative utopias and post-apocalyptic worlds. The course will draw from novels such as 1984, Brave New World, Clockwork Orange, and Oryx and Crake, and films such as Metropolis, Mad Max, Brazil, and The Matrix. Why do we find stories about the world gone wrong so compelling?

Limited enrolment: 50
Prerequisite: ENGB03H1 & ENGB04H1 & [one of ENGB05H1 or (ENGB01H1) or (ENGB02H1)]
ENGB04H3 Gulliver's Texts and Contexts
An examination of Swift's Gulliver's Travels (originally titled Travels into Several Remote Nations of the World) through material Swift drew from (such as More's Utopia and Montaigne's essay on cannibals), movements the work responded to (such as the New Science, medieval and Early Modern travel narratives, stories of monsters, ideas and theories about writing), and the responses the text provoked (such as children's versions, Nazi and other racist uses of the problematic Voyage 4, and film versions).
Pre-1900 course
Limited enrolment: 22
Prerequisite: 2 C-level courses in English

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.
Limited enrolment: 22
Prerequisite: 2 C-Level courses in English

ENGD08H3 South African Literature
A study of South African literature. In this course we will look at fiction, non-fiction, drama, and poetry produced in South Africa in the last fifty years.
Limited enrolment: 22
Prerequisite: 2 C-Level courses in English

ENGD12H3 Studies 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
Limited enrolment: 22
Prerequisite: 2 C-Level courses in English

ENGD14H3 Topics in Early Modern English Literature
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
Limited enrolment: 22
Prerequisite: 2 C-Level courses in English.

ENGD18H3 Studies 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
Limited enrolment: 22
Prerequisite: 2 C-Level courses in English
ENG3D1H3 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
Limited enrolment: 22
Prerequisite: 2 C-level courses in English

ENG3D2H3 Studies 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
Limited enrolment: 22
Prerequisite: 2 C-level courses in English

ENG4D1H3 Confessional Poetry
The emergence of the confessional voice in American and British poetry. Authors emphasized will be Robert Lowell, Ann Sexton, Sylvia Plath, and Adrienne Rich.
Limited enrolment: 22
Prerequisite: 2 C-level courses in English

ENG4D2H3 James Joyce
A study of Joyce's work and accomplishments. Texts include Dubliners, A Portrait of the Artist as a Young Man, and Ulysses.
Limited enrolment: 22
Prerequisite: 2 C-level courses in English

ENG4D3H3 Studies 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
Limited enrolment: 22
Prerequisite: ENG3D2H3 or 2 C-level courses in English.

ENG4D4H3 Studies in the 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
Limited enrolment: 22
Prerequisite: 2 C-level courses in English

ENG5D1H3 Cinema: The Auteur Theory
An exploration of the genesis of auteur theory. By focusing on a particular director such as Jane Campion, Kurosawa, 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.
Limited enrolment: 22
Exclusion: IN374H1, IN375H1
Prerequisite: 2 C-level courses in English

ENG5D2H3 Topics in a Major Canadian Writer I
Advanced study of a single Canadian writer such as Timothy Findley, Michael Ondaatje, Margaret Atwood, and Alice Munro.
Limited enrolment: 22
Exclusion: ENG5D3H3, ENG5D3H5
Prerequisite: 2 C-level courses in English

ENG5D3H3 Topics in a Major Canadian Writer II
Advanced study of a single Canadian writer such as Timothy Findley, Michael Ondaatje, Margaret Atwood, and Alice Munro.
Limited enrolment: 22
Exclusion: ENG5D3H3, ENG5D3H5
Prerequisite: 2 C-level courses in English

ENG5D4H3 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.
Limited enrolment: 22
Prerequisite: [ENGBOH3 or ENGBOH9H3 or ENGBOH9H3] & 2 C-level courses in English

ENG5D5H3 Topics in American Prose
This seminar course will usually provide advanced intensive study of a selected American prose-writer each term, following the development of the author's work over the course of his or her entire career. It may also focus on a small group of thematically or historically related prose-writers.
Limited enrolment: 22
Prerequisite: ENG5C2H3 or 2 C-level courses in English.

ENG6D1H3 James Baldwin, the African-American Experience, and the Liberal Imagination
A study of the fiction, drama, and essays of James Baldwin and their cultural context.
Limited enrolment: 22
Prerequisite: ENG5C2H3 or 2 C-level courses in English.

ENG6D2H3 Power and Perception: Imperialism, Colonialism, and Identity in Twentieth-Century Fiction
An exploration of multicultural perspectives on issues of power, perception, and identity as revealed in literary treatments of imperialism and colonialism in the twentieth century.
Limited enrolment: 22
Prerequisite: 2 C-level courses in English

ENG6D3H3 Rap Poetics
An intensive study of form and rhetoric in rap lyrics. We will consider the quarter-century recorded history of this sub-set of African-American poetry in rough chronological order. We will also look for the pre-history of rap in myth traditions as minstrelsy, blues, political speech, comic monologues, and lyric poetry proper.
Limited enrolment: 22
Prerequisite: 2 C-level courses in English
ENG80H3 Travel and Travellers in Literature
A study of fictional, semi-fictional, and non-fictional accounts of travel. Reading works by such writers as Homer, Lucian, Margery Kempe, Sir John Mandeville, Raleigh, Naizhe, Lady Montagu, Swift, and John Bartram, we will study travel accounts ranging through the forced transportation of slaves, pilgrimage, exploration, and tourism.
Pre-1900 course
Limited enrolment: 22
Prerequisite: 2 C-level courses in English

ENG90H3 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.
Limited enrolment: 22
Prerequisite: 2 C-level courses in English

ENG91H3 Myth and Canadian Fiction
An examination of Canadian writing in the context provided by myth.
Limited enrolment: 22
Exclusion: ENG92H1
Prerequisite: 2 C-level courses in English

ENG94H3 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.
Limited enrolment: 22
Prerequisite: 2 C-level courses in English

ENG99H3 Studies 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
Limited enrolment: 22
Exclusion: ENG443Y
Prerequisite: 2 C-level courses in English.

ENG99H3 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".
Limited enrolment: 22
Exclusion: IN122Y
Prerequisite: 2 C-level courses in English
ENG992H The Film Musical
An analysis of the Hollywood musical. We will focus on how genres are defined and what they tell us about meaning and cultural norms. How strict are genre rules and conventions and what happens when we stretch them? How do genres convey cultural assumptions about race, gender, class, and sexuality?
Limited enrolment: 22
Prerequisite: Two C-level courses in English

ENG993H Cinema and Spectatorship
An introduction to films, film theory debates, and ethics that address the role of the spectator. What spectators are: assumed or constructed by the movies. How does a film’s structure influence our understanding of what we see? How do movie stars affect us? How has technology changed spectatorship?
Limited enrolment: 22
Exclusion: EN214Y
Prerequisite: Two C-level courses in English

ENG994H 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.
Limited enrolment: 22
Exclusion: IN325Y
Prerequisite: 2 courses at the C-level in English

Environmental Science
(B.Sc.)

Faculty List
B. Greenwood, B.Sc., Ph.D. (Bristol), Ph.D. (Hons. Causa, Uppsala), Professor Emeritus
J. A. Westgate, B.Sc. (Reading), Ph.D. (Alberta), Professor Emeritus
N. Eyles, B.Sc. (Leicester), M.Sc. (Memorial University, Nfld), Ph.D. (East Anglia), D.Sc. (Leicester), P.Geo., Professor
K. W. Howard, B.Sc. (Exeter), M.Sc., Ph.D. (Birmingham), P.Geo., C.Geol.F.G.S., P.H.G., Professor
C. Mitchell, BSc (McMaster), MSc, PhD (Toronto), Professor
D. D. Williams, B.Sc. (North Wales), Dip. Ed. (Liverpool), M.Sc., Ph.D. (Waterloo), D.Sc. (Wales), Professor
R. R. Fulthorpe, B.Sc., M.Sc., (Toronto), Ph.D. (Cork), Associate Professor
W. A. Grugel, B.Sc. (Waterloo), M.Sc. (Toronto), Ph.D. (McGill), Associate Professor
A. P. Price, B.Sc. (Water), M.Sc., Ph.D. (McGill), Associate Professor
M. J. Simpson, B.Sc., Ph.D. (Alberta), Associate Professor
F. Wanta, B.A. (Bayreuth), Ph.D. (Toronto), Associate Professor
G. B. Arboeindt, B.Sc., MSc (Agricultural Univ of Athens, Greece), PhD (Univ of the Aegean, Greece), Assistant Professor
M. E. Isaac, Ph.D. (Toronto), Assistant Professor
A. Simpson, B.Sc., Ph.D. (Birmingham), Assistant Professor
M. Wells, B.Sc., Ph.D. (Australian National), Assistant Professor

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 degradations such as surface and subsurface water pollution, air and soil pollution, climate change, depletion of resources, extinction of species and problems of waste disposal are all a result of the lack of understanding of environmental systems and processes. Environmental degradation has an impact not only on human beings but on all species and most natural systems, so that its understanding requires approaches and skills from many disciplines such as biology, chemistry, geology, geography, mathematics, physics, and ecology.

The following programs in Environmental Science are available at UTSC:
• Four Specialist Programs (Environmental Biology, Environmental Chemistry, Environmental Geoscience and Environmental Physics)
• A Major Program in Environmental Science which, at present, has three streams (General Environmental Science, Environmental Biology and Water Science). This program is being replaced by a more rigorous unstreamed Major Program. Students who first register at UTSC in 2009/10 or earlier may choose to enrol in either the streamed or the unstreamed program.
• A Minor Program
• In addition a Joint Specialist Program in Environmental Science and Technology is offered in collaboration with the School of Engineering Technology and Applied Science of Centennial College. (For more information see the Environmental Science and Technology section of this Calendar.)

The overall purpose of the various programs in Environmental Science is to provide education and training which will produce highly qualified scientists with excellent field and laboratory experience, with a view to future employment in consulting, government, non-governmental organizations and research and teaching.

The Specialist Programs in Environmental Biology, Environmental Chemistry, Environmental Geoscience and Environmental Physics the new major program and all three streams of the Major Program are eligible for inclusion in the Co-operative Program in Physical Sciences. Please refer to the Physical Sciences and the Co-operative Program sections of this Calendar for further details.

Science Engagement Courses
For science experiential learning through community outreach (SCIB01H), classroom in-reach (SCIB02H) and team research, please see the Science Engagement section of this Calendar.

SPECIALIST PROGRAM IN ENVIRONMENTAL BIOLOGY
Supervisor of Studies: R. R. Falterper (416-287-7221) Email: falterper@utsc.utoronto.ca

Program Requirements
Total requirements: 14.5 full credits

First Year:
- EES40H1 Introduction to Environmental Science
- EES40H1 Introduction to Planet Earth
- BGYA01H1 Introductory Biology: Part I
- BGYA02H1 Introductory Biology: Part II
- CHMA10H1 Introductory Chemistry I: Structure and Bonding
- CHMA11H1 Introductory Chemistry II: Reactions and Mechanisms
- MATA33H1 Calculus I
- [MATA35H1 Calculus II for Biological Sciences]
  - or
- MATA36H1 Calculus II for Physical Sciences
  - or
- MATA37H1 Calculus II for Mathematical Sciences
- [PHVA10H1 Introduction to Physics IA]
  - or
- PHYA11H1 Introduction to Physics IB]

Second Year:
- BGYB50H1 Ecology
- BGYB51H1 Evolutionary Biology
- BGYB52H1 Ecology and Evolutionary Biology Laboratory
- EESH15H1 Earth History
- EESB16H1 Feeding Humans - The Cost to the Planet
- STAD22H1 Statistics I
- [PSCB57H1 Introduction to Scientific Computing]
  - or
- CSCE08H1 Introduction to Computer Programming
  - and
- 1.5 full credits from the following:
  - EESB03H1 Principles of Climatology
  - EESB04H1 Principles of Hydrology
  - EESB05H1 Principles of Soil Science
  - CHMB35H1 Environmental Chemistry
Third Year:
EESC30H1 Geographic Information Systems and Remote Sensing
EESC34H1 Biodiversity and Biogeography
EESC15H1 Research Seminar in Environmental Science
EESC30H1 Microbial Biogeochemistry
BGYC50H1 Advanced Population Ecology
BGYC61H1 Community Ecology and Environmental Biology
BGYC60H1 Conservation Biology
and
0.5 credit from the following:
BGYC57H1 Evolutionary and Applied Biology of Insects
BGYC65H1 Environmental Toxicology

Fourth Year:
EESC13H1 Environmental Impact Assessment and Auditing
and
0.5 credit from the following:
EEDS06H1 Climate Change Impact Assessment
EEDS15H1 Cleaning Up Our Mess: Remediation of Terrestrial and Aquatic Environments
EEDS32H1 Contaminant Fate in Terrestrial Environments
and
0.5 credit from the following:
BGYC52H1 Ecology Field Course
BGYC53H1 Marine Biology
BGYC67H1 Advanced Field Course in Ecology
BGYD51H1 River Ecology

Strongly recommended:
BGYD98Y Directed Research in Biology
or
EEDS10Y Research Project in Environmental Science

SPECIALIST PROGRAM IN ENVIRONMENTAL CHEMISTRY
Supervisor of Studies: R. R. Fulthorpe (416-287-7221)  Email: fulthorpe@satc.utoronto.ca
Advisor: J. Donaldson (416-287-7213)

Program Requirements
Total requirements: 15.0 full credits

First Year:
EESA01H1 Introduction to Environmental Science
EESA02H1 Introduction to Planet Earth
BOYA11H1 Introductory Biology: Part I
BOYA22H1 Introductory Biology: Part II
CHMA10H1 Introductory Chemistry I: Structure and Bonding
CHMA11H1 Introductory Chemistry II: Reactions and Mechanisms
MATA24H1 Calculus I
[MATA35H1 Calculus II for Biological Sciences
or
MATA36H1 Calculus II for Physical Sciences
or
MATA37H1 Calculus II for Mathematical Sciences
or
PHYA10H1 Introduction to Physics IA
or
PHYA11H1 Introduction to Physics IB]
Second Year:
BGYB50H Ecology
CHIM20H1 Chemical Thermodynamics and Elementary Kinetics
CHIM21H1 Chemical Structure and Spectroscopy
CHIM46H1 Organic Chemistry I
CHIM47H1 Organic Chemistry II
CHIMB55H Environmental Chemistry
STAB22H Statistics I
and
1.0 full credit from the following:
EESB03H Principles of Climatology
EESB04H Principles of Hydrology
EESB05H Principles of Soil Science
EESB10H Earth History

Third Year:
EESC03H Geographic Information Systems and Remote Sensing
EESC07H Groundwater
EESC13H Environmental Impact Assessment and Auditing
EESC15H Research Seminar in Environmental Science
CHIM26H1 Techniques in Analytical Chemistry
CHIMB51H Introduction to Inorganic Chemistry
PSCH157H Introduction to Scientific Computing

Fourth Year:
EESD28H Contaminant Hydrogeology
EESD29H Cleaning Up Our Mess: Remediation of Terrestrial and Aquatic Environments
EESD32H Contaminant Fate in Terrestrial Environments
CHIMC11H Principles of Analytic Instrumentation
and
0.5 credit from the following:
CHIMC12H Topics in Biophysical Chemistry
CHIMC13H Intermediate Inorganic Chemistry
CHIMC44H Intermediate Organic Chemistry
CHIMC47H Bio-Orga

SPECIALIST PROGRAM IN ENVIRONMENTAL GEOSCIENCE
Supervisor of Studies: R. R. Fulthorpe (416-287-7221)  Email: fulthorpe@unc.utoronto.ca

Program Requirements
Total requirements: 15.0 full credits
First Year:
EESA01H Introduction to Environmental Science
EESA06H Introduction to Planet Earth
BOYAO1H Introductory Biology: Part I
BOYAO2H Introductory Biology: Part II
CHMA10H1 Introductory Chemistry I: Structure and Bonding
CHMA11H1 Introductory Chemistry II: Reactions and Mechanisms
MATA35H1 Calculus I
or
MATA35H1 Calculus II for Biological Sciences
or
MATA36H1 Calculus II for Physical Sciences
or
MATA37H1 Calculus II for Mathematical Sciences
or
PHYA10H Introduction to Physics IA
or
PHYA11H Introduction to Physics IB
Environmental Science 107

Second Year:
- BGYB50H Ecology
- CINTB55H Environmental Chemistry
- EESB02H Principles of Geomorphology
- EESB03H Principles of Climatology
- EESB04H Principles of Hydrology
- EESB05H Principles of Soil Science
- EESB15H Earth History
- PSCHB57H Introduction to Scientific Computing

Third Year:
- EESCO3H Geographic Information Systems and Remote Sensing
- EESCO4H Biodiversity and Biogeography
- EESCO7H Groundwater
- EESC11H Environmental Impact Assessment and Auditing
- EESC15H Research Seminar in Environmental Science
- EESC31H Principles of Glacial Sedimentology and Stratigraphy
- EESC22H Mineralogy and Petrology

0.5 credit from the following:
- EESC23H The Great Lakes: An Introduction to Physical Limnology
- EESC19H Marine Systems

Fourth Year:
1.0 full credit from the following:
- EESD20H Contaminant Hydrogeology
- EESD22H Climate Change Impact Assessment
- EESD99H Research Project in Environmental Science
- EESD10Y Research Project in Environmental Science
- EESD11H Process Hydrology
- EESD15H Cleaning Up Our Mess: Remediation of Terrestrial and Aquatic Environments
- EESD22H Contaminant Fate in Terrestrial Environments

1.0 full credit from any other EES courses

Strongly recommended: EESC16H, EESD07H or BGYC53H

SPECIALIST PROGRAM IN ENVIRONMENTAL PHYSICS

Supervisor of Studies: R. R. Fulthorpe (416-283-7221) Email: fulthorpe@utsc.utoronto.ca
Advisor: M. Wells (416-283-4879) Email: wells@utsc.utoronto.ca

Program Requirements
Total Requirements: 15.0 full credits

First Year:
- PHYA10H Introduction to Physics IA
- PHYA11H Introduction to Physics IIA
- MATA30H Calculus I
- MATA31H Calculus II for Physical Sciences
- CHMA100H Introductory Chemistry I: Structure and Bonding
- CHMA11H Introductory Chemistry II: Reactions and Mechanisms
- EESA01H Introduction to Environmental Science
- EESA00H Planet Earth
- MATA23H Linear Algebra I

Second Year:
- PHYB20H Waves and Vibrations
- PHYB21H Electricity and Magnetism
- CHMB35H Environmental Chemistry
- EESB02H Principles of Geomorphology
- EESB03H Principles of Climatology
- EESB04H Principles of Hydrology
- EESB05H Principles of Soil Science
- PSCHB57H Introduction to Scientific Computing
Third Year:
PHYS110H Intermediate Physics Laboratory I
PHYS111H Intermediate Physics Laboratory II
STAT231H Statistics I
EESB151H Earth History
EESC303H Remote Sensing and Geographical Information Systems
EESC310H Principles of Glacial Geomorphology and Stratigraphy
EESC315H Research Seminar in Environmental Science
EESC370H Groundwater
[EESE183H The Great Lakes: An Introduction to Physical Limnology or
EESC191H Marine Systems]

Fourth Year:
EESC131H Environmental Impact Assessment and Auditing
PSCD001H The Physical Sciences in Contemporary Society
1.0 full credit from:
EESC211H Urban Environmental Problems of the Greater Toronto Area
EESC302H Contaminant Hydrogeology
EESC360H Climate Change Impact Assessment
EESC499H Research Project in Environmental Science
EESC410Y Research Project in Environmental Science
EESC412H Process Hydrology
EESC432H Contaminant Fate in Terrestrial Environments

MAJOR PROGRAM IN ENVIRONMENTAL SCIENCE
Supervisor of Studies: C. Mitchell (416) 288-2744 Email: curl.mitchell@utoronto.ca

Program Requirements
This program requires 8.5 full credits as follows:

First Year
BGY101H Introductory Biology Part I
BGY102H Introductory Biology Part II
CHMA108H Introductory Chemistry I: Structure and Bonding
CHMA118H Introductory Chemistry II: Reactions and Mechanisms
[MATA20H Calculus A or MATA30H Calculus I]
[MATA21H Calculus B or MATA35H or MATA58H Calculus II for Biological/Physical Sciences]
[PHYA10H or PHYA11H Introduction to Physics I A or IB]
EESA906H Planet Earth

Second Year
STAT232H Statistics I
and
1.5 credits from:
EESB351H Principles of Climatology
EESB354H Principles of Hydrology
EESB355H Principles of Soil Science
EESB355H Earth History
EESB461H Feeding Humans - The Cost to the Planet
and
0.5 credits from:
BGY300H Ecology
EESB352H Principles of Geomorphology
EESB271H Hydro Politics and Transboundary Water Resource Management
PSCH571H Introduction to Scientific Computing
CHMB555H Environmental Chemistry

Third & Fourth Years
2.0 credits from C- & D-level EES courses with at least 0.5 credit at the D-level.
MAJOR PROGRAM IN ENVIRONMENTAL SCIENCE - ENVIRONMENTAL BIOLOGY STREAM

Supervisor of Studies: D.D. Williams (416-287-7423) Email: williamdd@itsc.utoronto.ca

NOTE: This stream will be withdrawn at the end of 2009/10. Every effort will be made to allow students enrolled in the stream to complete it.

Program Requirements
Program Requirements:
This stream requires 7.0 full credits as follows:

First Year:
EISA001H Introduction to Environmental Science
EISA006H Introduction to Planet Earth
BGA01H Introductory Biology: Part I
BGA02H Introductory Biology: Part II

Second Year:
BGBY050H Ecology
BGBY151H Evolutionary Biology
BGBY252H Ecology and Evolutionary Biology Lab
EISB03H Principles of Climatology
EISB04H Principles of Hydrology
EISB05H Principles of Soil Science

Third Year:
EISC04H Biodiversity and Biogeography
STB22H Statistics I

and
1.0 full credit from the following:
BGCY057H Evolutionary and Applied Biology of Insects
BGCY058H Conservation Biology
BGCY059H Environmental Toxicology
CMIE051H Environmental Chemistry
EISB161H Feeding Humans - The Cost to the Planet
EISC081H Microbial Biogeochemistry

MAJOR PROGRAM IN ENVIRONMENTAL SCIENCE - GENERAL ENVIRONMENTAL SCIENCE STREAM

Supervisor of Studies: G. Achordatis (416-287-4658) Email: georgos@itsc.utoronto.ca

NOTE: This stream will be withdrawn at the end of 2009/10. Every effort will be made to allow students enrolled in the stream to complete it.

Program Requirements
This stream requires 7.0 full credits as follows:

First Year:
EISA001H Introduction to Environmental Science
EISA006H Introduction to Planet Earth
BGA01H Introductory Biology: Part I
BGA02H Introductory Biology: Part II

Second Year:
EISB02H Principles of Geomorphology
EISB03H Principles of Climatology
EISB04H Principles of Hydrology
EISB05H Principles of Soil Science
EISB15H Earth History

[STB22H Statistics I or CSCA08H Introduction to Computer Programming or PSCB57H Introduction to Scientific Computing]

Third Year:
BGBY050H Ecology
EISCS05H Geographic Information Systems and Remote Sensing
EISCS13H Environmental Impact Assessment and Auditing
EISCS11H Principles of Glacial Sedimentology and Stratigraphy
110 Environmental Science

MAJOR PROGRAM IN ENVIRONMENTAL SCIENCE - WATER SCIENCE STREAM

Supervisor of Studies: M. Wells (416-284-4879). Email: wells@utm.utoronto.ca

NOTE: This stream will be withdrawn at the end of 2009/10. Every effort will be made to allow students enrolled in the stream to complete it.

Program Requirements

This stream requires 8.0 full credits as follows:

First Year:
- EESA01H Introduction to Environmental Science
- EESA06H Introduction to Planet Earth
- BGYA01H Introductory Biology: Part I
- BGYA02H Introductory Biology: Part II
- EESA07H Water

Second Year:
- EESB02H Principles of Geomorphology
- EESB03H Principles of Climatology
- EESB04H Principles of Hydrology
- BGYB50H Ecology

Third Year:
- ESCC03H Geographic Information Systems and Remote Sensing
- EESC07H Groundwater
- EESC13H Environmental Impact Assessment and Auditing
  (EESC18H The Great Lakes: An Introduction to Physical Limnology or EESC19H Marine Systems)
- EESC31H Principles of Glacial Sedimentology and Stratigraphy
  and
- 1.0 full credit from the following:
  - BGYC53H Marine Biology
  - BGYC65H Environmental Toxicology
  - BGYD51H River Ecology
  - CLAB03H History and Culture of the Greek World
  - CLAB06H History and Culture of the Roman World
  - EESD02H Contaminant Hydrogeology
  - EESD11H Process Hydrology

MINOR PROGRAM IN ENVIRONMENTAL SCIENCE

Supervisor of Studies/Advisor: G. Arhonditis (416-284-4858). Email: georgias@utm.utoronto.ca

The Minor Program is designed to provide insights into the basic principles of Environmental Science and its applications to current environmental issues. It is intended for students with an interest in environmental issues but who do not have the necessary background for specialization in the field. In addition to science students, it is appropriate for students pursuing a degree in the social sciences or in management and economics.

Program Requirements

Total requirements: 4.0 full credits

First Year:
- EESA01H Introduction to Environmental Science
- EESA06H Introduction to Planet Earth

Second Year:
- Any 1.5 full credits from the following:
  - EESB02H Principles of Geomorphology
  - EESB03H Principles of Climatology
  - EESB04H Principles of Hydrology
  - EESB05H Principles of Soil Science
  - EESB15H Earth History

Third Year:
- 1.5 full credits of any other EES courses of which 1.0 full credit must be at the C- or D-level.

SPECIALIST (JOINT) PROGRAM IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY

See the Environmental Science and Technology section of this Calendar for program requirements.
SPECIALIST PROGRAM IN NATURAL SCIENCES
See the Physical Sciences section of this Calendar for program requirements.

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.

EESA09H3 Environmental Hazards
This course is an investigation of the geological background and possible solutions to major hazards in the environment. Environmental hazards to be studied include: landslides, erosion, earthquakes, volcanic eruptions, asteroid impacts, flooding, glaciation, future climate change, subsidence, and the disposal of toxic wastes. This may be of interest to a wide range of students in the life, social, and physical sciences; an opportunity for the non-specialist to understand headline-making geological events of topical interest. No prior knowledge of the Earth Sciences is required. Exclusion: GLG103H

EESA06H3 Introduction to Planet Earth
This course explores the composition, structure and origin of the Earth and the physical and biological processes that operate in and on it; the history of the Earth as revealed in the rock record. The flows of energy and mass through natural systems, and the impact of human activity on system processes, with particular reference to land use change, soil degradation and atmospheric pollution. Exclusion: GGR100Y, GLG100H

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.

EESA08H3 Wind
A survey of the science, history and applications of wind. Topics include storms including hurricanes, tornados and midlatitude cyclones, global circulation, local circulations, measurement of winds, impact of winds on land surfaces, wind power, winds and pollution, historical and contemporary wind research. No prior knowledge of environmental science is required.

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.

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.

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. Exclusion: GGR201H Prequisite: EESA06H

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. Exclusion: GGR203H, GGR312H Prequisite: EESA06H or EESA07H
EESC040H3 Principles of Hydrology
The water and energy balances; fluxes through natural systems. Processes 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. Exclusion: GGR208H4.
Prerequisite: EES1A0H1 or EES1A0H3 or any B-level EES course.

EESC050H3 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. Introduction to the techniques of soil examination in the field, soil analysis in the laboratory and the basic principles of soil classification. Exclusion: GGR205H4.
Prerequisites: EES1A0H1 or EES1A0H3.

EESC150H3 Earth History
Planet Earth is at least 4.6 billion years old and a geological record exists for at least the last 5 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 the Earth's history and the methods and techniques used by geologists to identify ancient environments.
Prerequisites: EES1A0H1 & EES1A0H3 or permission of the instructor.

EESC160H3 Feeding Humans - The Cost to the Planet
Examine 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.
Prerequisites: BGYA00H4 & BGYA02H4.

EESC170H3 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.
Prerequisites: EES1A0H1 or EES1A07H.

EESC230H3 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. Prerequisites: EES1A0H1 & 1.5 full credits in B- or C-level EES courses.
Recommended: A prior introductory GIS course and some experience with the use of computers (Windows or Unix-based).

EESC240H3 Biodiversity and Biogeography
Theoretical and practical aspects 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.
Prerequisites: BGYA00H4 or permission of the instructor.

EESC270H3 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.
Prerequisites: EES1A0H1 & 1.5 full credits in B-level EES courses.

EESC213H3 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.
Exclusion: GGR301H4.
Prerequisite: 2.5 full credits of EES courses or permission of the instructor.

EESC115H3 Research Seminar in Environmental Science
Concepts and methods developed in Environmental Science will be applied to practical environmental problems, within the framework of individual or group projects; a research proposal and a research seminar will be produced. The course is also designed to ensure interaction between students from disparate streams of environmental science through participation in joint seminars with faculty and with environmental practitioners from the community at large.
Prerequisite: Permission of co-ordinator.
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: EESB15H1 and permission of the instructor.

EESC18H3 The Great Lakes: An Introduction to Physical Limnology
North America is endowed with eight of the twelve largest fresh-water lakes in the world. The hydrodynamics and hydrodynamics of the Canadian Great Lakes are used as examples of large lacustrine systems. Fundamental concepts in physical and biological limnology are related to features found in the Great Lakes. Topics include: classification and origin of lakes, temperature structure, seasonal circulation, heat budgets, Laminar circulation, seiches, waves and water levels, eutrophication and invasive species.
Prerequisite: EESB03H1
Recommended course: EESB02H1

EESC19H3 Marine Systems
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: EESB03H1
Recommended Course: EESB02H1

EESC21H3 Urban Environmental Problems of the Greater Toronto Area
Urban areas such as the GTA are the focus of many acute environmental problems such as the disposal of solid and liquid wastes, and the contamination of soil, air and water by industrial activity. Specific cases of such problems drawn from the GTA will be reviewed, with reference to field investigations, environmental audits, due diligence and liability, and remedial solutions. Students will carry out their own field investigations and will report on specific issues, paying particular regard to government legislation and guidelines issued by regulatory agencies. This course is essential to students in the Environmental Science Program, but is also directly relevant to business and management students.
Prerequisite: 10 full credits in an EES Program, or permission of the instructor.

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 Microbial Biogeochemistry
This course examines the diversity of microorganisms, their adaptations to special habitats, and their role in the ecosystem and geochemical cycling. Other topics include microbial phylogeny, physiological diversity, species interactions and state of the art methods of detection and enumeration. Exclusion: (BOYCS5H1)
Prerequisite: CHMA11H1 & CHMA11H1 & BOYB50H1 & BOYB51H

EESC31H3 Principles of Glacial Sedimentology and Stratigraphy
The last 2.5 million years has seen the repeated formation of large continental ice sheets over North America and Europe. The landscape of Ontario is a fossil landscape inherited from the last Laurentide ice Sheet that disappeared only 10,000 years ago. Much of southern Ontario is buried by glacial sediments and the Great Lakes are the direct result of glacialation. The course will review the cause of glacialation and their geological and geomorphological effects paying special regard to the long record of past glacial and interglacial climates preserved in the Toronto region.
Prerequisite: EESA06H1

EESC32H3 Mineralogy and Petrology
This course provides an overview of common mineral and rock types and the methods for describing and identifying them. The fundamentals of crystal structure will be reviewed and used as a basis for mineralogical classification. Simple microscopic techniques for mineral identification and the mineralogy and origin of the more common sedimentary, igneous and metamorphic rock types are presented. This course is necessary for those students who wish to seek professional registration as a Professional Geoscientist in Ontario.
Limited enrolment: 20
Exclusion: GLG2061H, ERS2011H, ERS2031H
Prerequisite: EESD01H1 & EESA06H1

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.
Limited enrolment: 20
Prerequisite: 1.5 full credits at the B-level or higher in EES & permission of instructor.
Environmental Science and Technology

SPECIALIST (JOINT) PROGRAM IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY

This program is offered in collaboration with The School of Engineering Technology and Applied Science at Centennial College. The program may be taken in partial fulfillment of an Honours (Specialist) B.Sc. Degree from UTSC. In addition to completing the requirements for the degree, students will qualify for the Environmental Protection Technician Diploma from Centennial College.

Guidelines for 1st year course selection:

Students who intend to complete the program should include BOVA01H, BOYA02H, CHMA10H, CHMA11H, MATA10H, MATA16H & [PHYA10H or PHYA11H] in their 1st year course selection.

Program Admission:

Students should request the program through ROSI. Enrolment is limited. Students may apply to the program after completing 4.0 full credits, including 1.0 credit in Environmental Science, and 0.5 credit in each of Chemistry, Biology, Mathematics and Physics.
Program Requirements
Students must complete 16.5 full credits, as follows:

1. Introductory (3.5 credits):
   a) EES401H Introduction to Environmental Science
      and
   b) CHMA101H Introductory Chemistry I: Structure and Bonding
      and
   c) CHMA111H Introductory Chemistry II: Reactions and Mechanisms
      and
   d) GGY403H Introductory Biology: Part I
      and
   e) STAB222H Statistics
      or
   f) PSCB572H Introduction to Scientific Computing

2. Fundamentals and Principles (3.5 credits):
   a) GGY850FH Ecology
      and
      [PHY A101H Introduction to Physics IA
      or
      PHY A111F Introduction to Physics IIB]
   b) MATA301H Calculus I
      and
   c) MATA365H Calculus II for Physical Sciences
      and
   d) 1.5 credits of the following:
      EESB021H Principles of Geomorphology
      EESB031H Principles of Climatology
      EESB041H Principles of Hydrology
      EESM051H Principles of Soil Science
      EESB151H Earth History
      EESB161H Feeding Humans - The Cost to the Planet

3. Applied and Technical (6.0 credits):
   (These courses are taught at the Centennial HP Science and Technology Centre.)
   a) MCM301H Microbiology Basics*
      STEB211H Organic Chemistry and Applications
      STEB3791H Analytical Chemistry and Applications*
      STEB446H Applied Environmental Microbiology
      STEC111H Applied Microbiological Analysis
      STEC351H Applied Analytical Instrumentation
      b) STEB429H Water Quality Control*
      STEB431H Engineering Equipment and Processes*
      STEC3600H Applied Hydrology and Water Management
      STEC611H Hazardous Wastes and Modern Industrial Processes
      c) STEB449H Environmental Legislation and Regulations*
      [STEC531H Environmental Audit, Sampling and Data Management
      EESC131H Environmental Impact Assessment and Auditing

4. Advanced (3.5 credits):
   a) EESC031H Geographic Information Systems and Remote Sensing
      EESC041H Biodiversity and Biogeography
      EESC071H Geomorphology
      EESC111H The Great Lakes: An Introduction to Physical Limnology
      EESS021H Contaminant Hydrogeology
      EESS111H Process Hydrology
      EESS131H Cleaning Up Our Mess: Remediation of Terrestrial and Aquatic Systems

* A minimum grade of 60% is required in courses marked with an asterisk in order to maintain standing in the program.
STEB073 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 Industrial Microbiology
Exclusion: CHMC11H, CHMB16H.
Prerequisite: IMCB03H or CHMA11H and permission of instructor.
Note: CHMC11H or CHMB16H may be taken after STEB07H, but STEB07H cannot be taken after CHMC11H or CHMB16H

STEB213H 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.
Exclusion: CHMB41H & CHMB42H. Note: CHMB41H and CHMB42H may be taken after STEB21H, but STEB21H may not be taken after CHMB41H or CHMB42H.
Prerequisite: CHMA11H

STEB404H Applied Environmental Microbiology
The principles of Environmental Biology: water, air and soil testing procedures. Analysis of contaminated and apex 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: BGY62H and IMCB03H

STEB423H 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.
Prerequisite: PHYA10H or PHYA11H

STEB443H 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.
Prerequisite: STEB04H

STEB453H 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.
Exclusion: CHMC16H. Note: STEC15H may not be taken after CHMC16H, but CHMC16H may be taken after STEC15H.
Prerequisite: CHMA11H & STEB07H

STEC503H 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: STEC53H may not be taken after or concurrently with EES213H.

STEC504H Applied Hydrology and Flows 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: EESB04H & STEB42H

STEC613H 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, polycyclic aromatic hydrocarbons, halogenated solvents, organic acids, Freon of pesticides. Limited to students enrolled in the Joint Specialist program in Environmental Science and Technology.
Prerequisite: CHMA11H & STEB21H & STEB07H

IMCB01H Microbiology Basics
(See the Industrial Microbiology section of this Calendar for a full description.)
Faculty List
C. Bertrand-Jennings, L. E. L. (Paris), Ph.D. (Wayne State), Professor Emeritus
L.A. Desclerez, B.A. (London), Ph.D. (Ouareau), Professor Emeritus
S. Mitter, M.A. (Toronto), Ph.D. (Strasbourg), Associate Professor
J. Nasirajjipour, M.A. (Montreal-UQAM), Ph.D. (Montreal-UQAM), Associate Professor
P. Pietramala, M.A., Ph.D. (Montreal), Assistant Professor
K. McCrindle, M.A., Ph.D. (Toronto), Senior Lecturer
F. Mignier, M.A. (Geneva), Ph.D. (Geneva), Senior Lecturer
M. Banasik, M.A., Ph.D. (Western), Lecturer
J. English, M.A., Ph.D. (Toronto), Lecturer
S. Solimena, M.A. (St. Petersburg [Central Europe]), Ph.D. (Herzen State) (St. Petersburg), Lecturer
M. Tumess, B.A. (Athens), M.A., Ph.D. (Montreal), Lecturer

Program Supervisor: F. Mignier (416-287-7143) Email: french-programs-supervisor@ustc.utoronto.ca

Studies in French allow for a wide range of interests: the enhancement of practical language skills, including translation, pronunciation and business French (FREA17H, FREA80H, FRES63H, FRES64H, FRES66H, FRES67H, FRES68H); the study of how the language is structured (FREB45H, FREB45H, FREB45H, FREB46H, FREC40H, FREC40H, FREC40H); the development of approaches to the teaching of French (FREB12H, FREC16H); and the exploration of the rich literatures and cultures of French Canada, France and other parts of the francophone world.

Students are also encouraged to take HUMA01H (Exploring Key Questions in Humanities) as early as possible in their French studies.

The following Programs are offered at University of Toronto Scarborough: a Minor Program in French; a Minor Program for francophone students; a Minor Program in French as a Second Language; a Major in French; and a Specialist Program in French which can be completed either as a specialist program in its own right or as part of the Concurrent Teacher Education Program (CTEP)

Guidelines for course selection: French studies normally begin with FREA01H, Language Practice 1, which serves to consolidate previous knowledge, and is the prerequisite for more advanced courses in all areas. FREA01H is designed primarily for students with Grade 12 French or equivalent competence. Those who have significant "immersion" or "enriched" high school experience, or who have native or near-native abilities in French, should consult the faculty member responsible for FREA01H (or FREA01H about the appropriate entry course). Students without Grade 12 French may wish to take FREA06H Introductory French I, FREA07H Introductory French II, FREA08H Intermediate French I, FREA09H Intermediate French II. Incoming students must register in the course appropriate to their level of language skill, based on the results of a placement test. The placement test is MANDATORY for all students who register for the first time in FREA06H, FREA07H, FREA08H or FREA09H. University of Toronto students who have already taken FSL11H or FSL11H do not need to write the placement test. Please check the Humanities French webpage for details: http://www.ustc.utoronto.ca/~humdiv/Languidll/fre_studyguide/overview.htm. If you experience difficulties in logging in or if you wish to take the test at the Department of Humanities, please write to french-placement@humdiv.utoronto.ca for assistance or to book an appointment. The Department STRONGLY RECOMMENDS that the placement test be completed prior to registration.

Students with a grade 12 French credit should proceed directly to FREA01H and higher-level courses (some exceptions may apply with the permission of the Program Supervisor). Note that the Language Practice courses FREA01H and FREA02H, FREA01H and FREA02H, and FREA02H and FREA03H must be taken in sequence. Normally, an A-level FIRE course should not be taken at the same time as, or after, a B-level FIRE course. Please do not hesitate to consult Program Supervisors and other faculty members for further advice about course selection and Programs.

The University of Toronto Scarborough offers academic credit for students who wish to earn academic credit while studying in another province or country. For further information about this Program and about Letters of Permission, please refer to "Study at Other Universities" in this calendar, and speak to our Program Supervisor.

Students with Grade 12 French who took Summer Bursary Program courses prior to attending U of T must see the Program Supervisor during the first week of classes. After assessing the course, the Program Supervisor 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 Program Supervisor about possible exclusions if they are considering registering in French courses in the Faculty of Arts and Social Sciences at the 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 the Language Citation section of the Calendar for more information.

The French Study Guide is available at: http://www.ustc.utoronto.ca/~humdiv/Languidll/fre_studyguide/index.htm
SPECIALIST PROGRAM IN EDUCATION OF TEACHERS IN FRENCH

The Specialist Program in the Education of Teachers in French has been replaced by the Concurrent Teacher Education Program (CTEP) in French. (For more information on CTEP, see the Concurrent Teacher Education section of this Calendar.) Every effort will be made to ensure that students who first enrolled at U of T Scarborough in 2006-07 or earlier and who have been admitted to the Specialist Program in the Education of Teachers in French are able to complete it as described in the 2008-09 Calendar. In addition to the courses listed in Requirement a) 2 of the program, students may add FRE455H as an option.

SPECIALIST PROGRAM IN FRENCH
Program Supervisor: F. Magnier (416-287-7143) Email french-program-supervisor@utm成熟的on.ca

This program requires 10 credits and 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. It can be completed either as a Specialist Program in its own right or as part of the Concurrent Teacher Education Program (CTEP) in French. (For more information on CTEP, see the Concurrent Teacher Education section of this Calendar.)

Program Requirements

1. Three credits consisting of:
   - FREA01H Language Practice I
   - FREA02H Language Practice II
   - FREB01H Language Practice III
   - FREB02H Language Practice IV
   - FREC01H Language Practice V
   - FREC02H Language Practice VI
   (Except where substitution of other French credits is permitted for students with special proficiency in the French language)

2. Three full credits selected from:
   - FREB43H Understanding French Grammar
   - FREB44H Introduction to Linguistics: French Phonetics and Phonology
   - FREB45H Introduction to Linguistics: French Morphology and Syntax
   - FREC45H French Morphology
   - FREC46H French Syntax
   - FREC47H Special Topics in Linguistics: Pencil and Croise Languages
   - FREC48H Sociolinguistics of French
   - FREC49H French Semantics
   - FRED46H Special Topics in Advanced French Syntax

3. One full credit selected from:
   - FREB22H The Society and Culture of Québec
   - FREB27H Modern France
   - FREB281H The Francophone World

4. Three full credits in literature which must include: one full credit in French Canadian literature; one full credit in French literature (FREB55H, FREB56H and FREB57H can fulfill this requirement); one-half credit in literature from other parts of the French-speaking world excluding France and Canada, one-half credit of your choice.

Under special circumstances and with the permission of the Program Supervisor, students may be allowed to take a course taught in English if all the assignments are completed in French.

MAJOR PROGRAM IN FRENCH
Program Supervisor: F. Magnier (416-287-7143) Email: french-program-supervisor@utm成熟的on.ca

Program Requirements

Students must complete seven full credits in French, including:

1. FREA01H, FREA02H, FREB01H and FREB02H (except where the Program Supervisor permits substitution of other FRE courses for students with special proficiency in the French language).

2. One further full credit in language:
   - Language courses are: FREB03H, FREB09H, FREB17H, FREB18H, FREB43H, FREB44H, FREB45H, FREC05H, FREC09H, FREC02H, FREC18H, FREC45H, FREC48H, FREC49H, FRED01H, FRED06H, FRED46H

3. One full credit in literature and/or culture:
   - Literature courses are: FREB03H, FREB05H, FREB06H, FREB37H, FREB50H, FREB51H, FREB55H, (FREB66H), FREC38H, FREC41H, FREC51H, FREC53H, FRED12H.
   - Culture courses are: FREB22H, FREB27H, FREB281H, FREB70H, FREB84H, FREC83H.

4. Three additional full credits in French
Note: Only courses for which the student does assignments in French can be counted towards a French Program; at the A-level, only FREA01H and FREA02H may be counted.

Note: For Co-op opportunities related to the Major Program in French please see the Humanities section in this Calendar.

MINOR PROGRAM IN FRENCH
Program Supervisor: F. Maguire (416-287-7143)  Email: french-program-supervisor@utsc.utoronto.ca

Program Requirements
Students should complete four full credits including: FREA01H, FREA02H, FREB01H and FREB02H, plus two further credits in French. At least one full credit must be at the C-level.

MINOR PROGRAM IN FRENCH AS A SECOND LANGUAGE
Supervisor: F. Maguire (416-287-7143)  Email: french-program-supervisor@utsc.utoronto.ca

Program Requirements
Students in this Program should complete at least four full credits including FREA01H, FREA02H, FREB01H, FREB02H, FREC01H, FREC02H, and one other credit at the FRE B-level or higher.
FREAA99H1 or (LGBB24H1) may be included if taken before FREA01H. Students who start at this level should complete at least 4 full credits including FREA01H, FREA02H, FREB01H, FREB02H, FREC01H, FREC02H, plus one other half credit at the FRE B-level.

MINOR PROGRAM IN FRENCH FOR FRANCOPHONES
Program Supervisor: F. Maguire (416-287-7143)  Email: french-program-supervisor@utsc.utoronto.ca

Program Requirements
Students in this Program must complete at least four full credits at the B- and C-levels, excluding FREB01H, FREB02H and FREB17H. At least one full credit must be at the C-level.

FREA94H1 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.
The placement test is mandatory for all students (even complete beginners) who register for the first time. The Department strongly recommends that the placement test be completed prior to registration.
Limited enrolment: 30 per section
Exclusion: (LGGA21H1, LGGA22H1, LGGB23H1, (LGGB24H1, FSL100H1 or equivalent.

FREA97H1 Introductory French II
An intensive course in written and spoken French; a continuation of FREA94H1.
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 FREA94H1, using the second half of the same textbook.
A placement test is mandatory for all students who register for the first time in FREA97H1. FREA94H1 and FREA98H1. The Department strongly recommends that the placement test be completed prior to registration.
Limited enrolment: 30 per section
Exclusion: (LGGA22H1, FSL102H1 or equivalent.
Prerequisite: FREA94H1 or (LGGA21H1)

FREA98H1 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.
A placement test is mandatory for all students who register in FREA98H1, FREA97H1, FREA98H2 or FREA99H1 for the first time. The Department strongly recommends that the placement test be completed prior to registration.
Limited enrolment: 50 per section
Exclusion: FSL 121Y, (LGGB23H1) or equivalent
Prerequisite: FREA97H1 or (LGGB23H1)

FREA99H3 Intermediate French II
Intended for students who have some knowledge of French and who wish to bring their proficiency up to the level of normal University entrance; a continuation of FREA98H1; prepares students for FREA99H1. Offers training in written and spoken French, reinforcing reading comprehension, written skills and oral/aural competence.
A placement test is mandatory for all students who register in FREA98H1, FREA97H1, FREA98H2 or FREA99H1 for the first time. The Department strongly recommends that the placement test be completed prior to registration.
Limited enrolment: 30 per section
Exclusion: Grade 12 French, (LGGS24H1), FSL121Y or equivalent. Cannot be taken concurrently or after FREA01H.
Prerequisite: FREA98H1, (LGGB23H1) or equivalent.
FREA01H3 Language Practice I
Reinforcement and development of the language skills—understanding, reading, writing and speaking—necessary for higher-level courses.
The course includes grammar review (written and oral), various exercises both traditional and internet-based, and reading and discussion of texts from different francophone cultures. FREA01H3 is a prerequisite for all 100-level courses.
Exclusion: Native or near-native fluency in French (FSL181Y, FSL221Y).
Prerequisite: Grade 12 French or FREA99H or equivalent or permission of instructor

FREA02H3 Language Practice II
A continuation of FREA01H.
Exclusion: Native or near-native fluency in French; (FREA10), (FSL141Y), (FSL181Y), FSL221Y.
Prerequisite: FREA01H.

FREA173H3 Conversation I
Development and reinforcement of spoken French.
Through oral practice based on common situations, students will learn vocabulary, syntax and grammar essential for communication. The course also involves supportive in-class written work and listening comprehension exercises. It may but does not have to accompany FREA01H and FREA02H.
Exclusion: Native or near-native proficiency; (FSL161Y), FREA01H, FREA02H, FREA17H, FREC05H, FREC09H, FREC02H, FREC18H.
Prerequisite: Grade 12 French or equivalent.

FREA191H3 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.
Exclusion: (FSL261Y), (FSL281Y), FSL331Y, FSL641Y or equivalent or native proficiency.
Prerequisite: FREA01H and FREA02H or equivalent or permission of instructor.

FREA202H3 Language Practice IV
A continuation of FREA09H.
Exclusion: (FSL261Y), (FSL281Y), FSL331Y, or FSL641Y or equivalent or native proficiency.
Prerequisite: FREA01H or equivalent or permission of instructor.

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.
Exclusion: Native proficiency. FREB08H may not be taken after or concurrently with FREC18H, FREC40Y or FREC81Y.
Prerequisite: FREA01H and FREA02H or equivalent or permission of instructor.

FREB09H3 Practical Translation II
A continuation of Practical Translation I.
Tests from fields such as literature, business, politics, technology and advertising will be translated and analyzed in terms of accuracy and lexical resourcefulness. Attention will be paid to multiple variants as well as interference from English.
Exclusion: Native proficiency. FREB09H may not be taken after or concurrently with FREC18H, FREC40Y or FREC81Y.
Prerequisite: FREA01H and FREA02H or equivalent or permission of instructor.

FREB111H3 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 presentations for observations in local schools throughout the duration of the course.
Prerequisite: FREA01H and FREA02H or equivalent or permission of instructor.

FREB170H3 Conversation II
Intensive practice in spoken French.
Controlled situational work, discussion groups and a variety of exercises designed to improve lexical and syntactical resourcefulness will provide an opportunity for a reasonable degree of confidence when speaking about everyday life and contemporary topics. FREB17H can also be taken under Study Elsewhere.
Prerequisite: FREA01H and FREA02H or equivalent.

FREB181H3 Commercial French
The French language in a commercial or economic context.
Of interest, among others, to students in French, Business Accounting, Management, Economics and Journalism, this course emphasizes commercial writing techniques and exercises that include the vocabulary and structures of business language primarily as found in the Canadian francophone community.
Exclusion: FSL66H.
Prerequisite: FREA01H and FREA02H or equivalent or permission of instructor.

FREB202H3 Teaching Children’s Literature in French
An analysis of the varied forms and content 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.
Exclusion: FREB18H.
Prerequisite: FREA01H and FREA02H or equivalent or permission of instructor.

FREB22H3 The Society and Culture of Quebec
A study of the historical, cultural and social development of Quebec 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 Quebec culture and society that make it a distinct place in North America.
Prerequisite: FREA01H and FREA02H or equivalent or permission of instructor.
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: [FREA01H & FREA02H] or equivalent or permission of instructor

FREB28H3 The Francophone World
An examination of historical, political and cultural realities in different parts of the French-speaking world. Topics to be discussed will include slavery, colonization, de-colonization and multi-linguism. Exclusion: FSL362Y
Prerequisite: [FREA01H & FREA02H] or equivalent or permission of instructor

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.
Exclusion: FRE332H
Prerequisite: [FREA01H & FREA02H] or equivalent or permission of instructor

FREB36H3 The 20th Century Quebec Novel
A study of some of the major novels written in Quebec 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 Quebec society.
Exclusion: FRE210Y
Prerequisite: [FREA01H & FREA02H], Corequisite: FREB51H or equivalent or permission of instructor

FREB37H3 Contemporary Quebec Drama
A study of contemporary Quebec 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.
Exclusion: FRC312Y
Prerequisite: [FREA01H & FREA02H], Corequisite: FREB51H or equivalent or permission of instructor

FREB43H3 Understanding French Grammar
Directed to students specializing in French and all those who wish to strengthen their knowledge/use of French.
We explore ways in which simplified linguistic tools shed light on the apparent complexity of French grammar, and examine parts of speech, grammatical features and functions, subordination, clause types, and more.
Exclusion: FRE172H
Prerequisite: [FREA01H & FREA02H] or equivalent

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.
Exclusion: FRE272Y, FRE376H
Prerequisite: [FREA01H & FREA02H] or equivalent or permission of instructor

FREB54H3 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 FREB43H and FREB44H.
Exclusion: FRE272Y
Prerequisite: [FREA01H & FREA02H] or permission of instructor

FREB56H3 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.
Exclusion: FRE240Y
Prerequisite: [FREA01H & FREA02H] or equivalent or permission of instructor

FREB57H3 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 stories, poetry and novels) selected for their historical relevance and literary importance.
Exclusion: FRE250Y
Prerequisite: [FREA01H & FREA02H] or equivalent or permission of instructor

FREB58H3 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.
Exclusion: FRE250Y
Prerequisite: [FREA01H & FREA02H] or equivalent or permission of instructor
FREC100H3 Cinema of the Francophone World
An examination of films that have had a major impact on the development of francophone 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: FRE100H1 & FRE102H1 or equivalent or permission of instructor

FREC340H3 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 folktale from Canada, the U.S., France, 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. Taught in English.
Prerequisite: FRE100H1 & FRE102H1 for students enrolled in French programs or two A-level courses in Humanities or permission of instructor

FREC353H3 Language Practice V
The purpose of the course is to improve the student's writing, 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.
Exclusion: (FSL361Y), (FSL382H), (FSL383H), FSL431Y, FSL420H, FSL443H or equivalent.
Prerequisite: FRE100H1 & FRE102H1 or equivalent or permission of instructor

FREC357H3 Language Practice VI
A continuation of FREC356H.
Exclusion: (FSL361Y), (FSL382H), (FSL383H), FSL431Y, FSL420H, FSL443H or equivalent
Prerequisite: FRE100H1

FREC358H3 Exercise in Interpreting
Preparation for oral French for job and other context-related purposes.
The class features small groups in "real-life" situations (e.g. legal cases, social work, immigration, annual business meetings). Practice in interpreting will focus on retention, accuracy of expression, lexical resourcefulness, cultural "reformatting" and speed of delivery.
Prerequisite: FRE107H1 or equivalent or permission of instructor

FREC387H3 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.
Exclusion: FRE184H1
Prerequisite: FRE100H1 & FRE102H1 or equivalent or permission of instructor

FREC388H3 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.
Exclusion: FRE188H may not be taken after or concurrently with FRE480Y or FRE481Y.
Prerequisites: [FRE100H1 & FRE102H1] & [FRE108H1 or FRE109H1] or equivalent or permission of instructor

FREC393H3 Special Topics in the Literature of Quebec:
Postmodern Literature
An exploration of the textual forms and ideas that challenge tradition in contemporary writing.
Québecois postmodern literature speaks of virtuality, liberating forces and creativity. We will examine issues such as gender identity, the question of the Self and the Other and the impact of technology on our culture.
Prerequisite: FRE100H1 or equivalent or permission of instructor

FREC453H3 French Morphology
A study of the morphological rules governing word formation and inflection in modern French. Special attention is devoted to analytical tools and their relevance to issues surrounding second language learning.
Exclusion: FRE187H
Prerequisite: FRE145H1 or equivalent

FREC454H3 French Syntax
A study of various aspects of French sentences.
Topics include grammatical patterns of sentences, how and why basic patterns are transformed, grammatical constraints on such transformations, and distinctive features that pose problems for FSL learners.
Exclusion: FRE178H1
Prerequisite: FRE145H1

FREC473H3 Special Topics in Linguistics: 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 English, Spanish and Dutch-based Creoles, as well as regional varieties.
It will include some socio-historical discussion.
Prerequisite: FRE143H1 or FRE144H1 or FRE145H1 or LIN101H1 or permission of the instructor

FREC483H3 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 such as socio-economic status, types of situation and gender of speaker. Other topics include dialects, languages in contact, language shift, social codes and pidgins and Creole languages.
Exclusion: LIN120L1, LIN121L1
Prerequisite: [FRE100H1 & FRE102H1] or equivalent or permission of instructor
FREC49H3 French Semantics
An examination of meaning and interpretation in the structure, function and use of the French language. The course will introduce students to approaches to the notion of meaning as applied to French data. Identification of elements of meaning, of their properties and of their combination will be discussed.
Exclusion: FRE38H4, LIN211H
Prerequisite: FREB34H3 or FREB44H1 or FREB54H1 or LINA01H or permission of instructor

FREC55H3 Topics in French Literature: Short Stories of the 19th and 20th Centuries
A study of the genre illustrated by short stories from different periods and traditions. The course will examine themes and literary techniques at least six short stories; attention will also be paid to their socio-cultural context.
Prerequisite: [FREB40H1 & FREB50H1] or [FREB55H1 or equivalent] or permission of instructor

FREC61H3 Topics in French Literature: Humour in French-Language Fiction Today
An examination of modern and contemporary comic writing in French.

The bases and functions of literary humour in the last several decades will be studied in works by authors both French and francophone as we consider culture's influence and how and why satire, parody and pastiche make us laugh.
Prerequisite: [FREB50H & FREB51H] or equivalent or permission of instructor

FREC63H3 Topics in French Literature: Encountering Foreign Cultures: Travel Writing in French
An examination of the trends and attitudes embodied in French travel writing over time.
The course considers aspects of utopianism, cosmopolitanism, romanticism, imperialism, postcolonialism and ethnography in fictional and non-fictional narratives set 'elsewhere'. Selections are drawn from writers such as Lahontan, Gaufré, Nerval, Gide, Lois, Segalen, Conan, Brousier and Baudekland.
Exclusion: none
Prerequisite: [FREB50H1 & FREB50H2] & [FREB50H1 or equivalent] or permission of instructor

FREC63H3 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 "mable savage", the "Oriental", the "country bumpkin" and the "foreigner".
Taught in English.
Prerequisite: Two Humanities courses or permission of instructor.

FRED61H3 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, enquiring, etc.), students will be guided to work on accuracy and logical structure in written French.
Limited enrolment: 30
Exclusion: FSLA31Y, FSLA41Y, FSLA42Y or equivalent
Prerequisite: FRED20H1 or equivalent or permission of instructor

FRED63H3 Language Practice VIII: Oral French
Through a variety of listening related activities, students will refine strategies for increasing oral comprehension. In-class discussions, debates and oral presentations will enhance their fluency, reinforce the accuracy of their oral communication, expand their vocabulary and improve their pronunciation.
Limited enrolment: 30
Exclusion: FSLA44H1 or equivalent
Prerequisite: FRED20H1 or equivalent or permission of instructor

FRED12H3 Advanced Topics in Literature: Haitian Migrant Literature in Quebec
Novels by Haitian writers living in Quebec speak of migration, tension, marginalization, in-betweeness, belonging, the Self and the Other. This course will explore these issues through 4 novels and several other texts, all of which question our societies and encourage change.
Prerequisite: [FREB50H & at least one C-level literature course] or permission of instructor.

FRED40H3 Special Topics in Advanced French Syntax
A close investigation of various constructions in French and their relevance to language acquisition. Emphasis is put on syntactic contrasts between French and English, as well as theoretical and methodological implications arising from their analysis.
Exclusion: FRE48H1
Prerequisite: FREC40H3

FRED60H3
FRED63H3
FRED64H3
FRED65H3
FRED67H3
FRED90Y3 Supervised Reading
These courses offer the student an opportunity to carry out an 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 concomitance 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 FRED60H1-FRED64H4, except FREB51H & FREB51H.
Geography (B.A.)

Faculty List
J. Miron, B.A. (Queen's), M.A. (Penn.), M.Sc. (Ed.), Ph.D. (Toronto), Professor
E. C. Rechel, B.A., M.Ed. (London), Ph.D. (Toronto), Professor
M. F. Bunce, B.A., M.Ed. (Sheffield), Associate Professor
A. Sorensen, B.F.A. (Nova Scotia College of Art and Design), M.A. (London), Ph.D. (London), Associate Professor
S. Bunce, B.A. (Sheffield), M.Ed. (York), Ph.D. (York), Assistant Professor
M. Hunter, B.A. (Saskatchewan), M.A. (Univ. of Natal), Ph.D. (Univ. California, Berkeley), Assistant Professor
T. Kope, B.A. (Fort Hare Univ., South Africa), M.Sc. (Sheffield), Ph.D. (Univ. Western Cape, South Africa), Assistant Professor
K. Macdonald, B.A., M.A., Ph.D. (Waterloo), Assistant Professor
M. Mattaini, B.A. (Dalhousie), Ph.D. (London), Assistant Professor

Discipline Representative: A. Sorensen
Undergraduate Counsellor: J. Roggeman
Email: social-sciences-counsellor@uwaterloo.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 Development Studies. Geography courses are also listed as options in several U of T Scarborough Programs including the Co-op Program in International Development.

MAJOR PROGRAM IN HUMAN GEOGRAPHY

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 should take GGRA12H & GGRA13H in first year. They might also want to take GGRA19H.

Program Requirements

The Major Program in Human Geography requires a total of 7 full credits. This Program includes requirements in the areas of social science theory, methods, applications, and an advanced seminar. Among these 7 credits, the student must include:

1. Introduction (1.0 credit)
   GGRA12H The Geography of Global Processes
   GGRA13H Cities and Environments

2. Theory and concepts in Human Geography (at least 2.0 credits from among the following):
   GGRIB05H Urban Geography
   [CTIB01H Canadian Cities and Planning or (GGRIB06H) Planning in Canada]
   {CTIC03H or (GGRIB08H) Real Estate and the City]
   GGRIB13H Social Geography
   GGRIB20H Environmental Conservation and Sustainable Development
   GGRIB25H Geographies of Disease

3. Methods (1.0 credit)
   GGRAC01H GIS and Empirical Reasoning
   and one of:
   ANTC35H Quantitative Methods in Anthropology
   ECRM90Y Quantitative Methods in Economics
   ECRM110H Quantitative Methods in Economics I
   GGR2700H Introductory Analytical Methods
   GGR271H Social Research Methods
   PSYB07H Data Analysis in Psychology
   SOCIB08H Social Statistics
   STAR22H Statistics I

4. Applications (at least 2.0 credits from among the following):
   GGRCC01H Supervised Readings in Human Geography
   GGRCD02H Population Geography
   GRC10H Urban Residential Geography
   GGRCD13H Urban Political Geography
MINOR PROGRAM IN HUMAN GEOGRAPHY

Program Requirements
The requirements for this Program are four full credits in Geography which must include one full credit at the C-level or D-level.

MAJOR PROGRAM IN PHYSICAL AND HUMAN GEOGRAPHY
This is an interdisciplinary program leading to a B.A. degree in which students combine courses in human geography (GGR prefix) with courses in physical geography (EES prefix).

Guidelines for 1st year course selection
EES courses presume a background in physical sciences and mathematics. It is recommended that first year students take EESA01H, EESA06H, GGRA02H and GGRA03H and at least 1.5 full credit from among [BGRA01H & BGRA02H], [CBMA01H & CBMA01H], [PHYA01H or PHYA01H], [MATA01H & MATA01H], and [A101H & A102H].

Program Requirements
The Major Program in Physical and Human Geography requires the completion of a total of 8 full credits of which 4.0 credits are to be EES courses, and 4.0 credits are to be GGR courses. Among these 8.0 credits, the student must include:
1. EESA01H, EESA06H, GGRA02H & GGRA03H
2. At least 1.5 credits from among EESS02H, EESS03H, EESS04H, EESS05H, & EESS13H
3. At least 1.5 credits from among C17B01H or (GGRB06H), GGRB05H, GGRB10H, GGRB13H, GGRB20H, GGRB21H & GGRB27H
4. At least 1.0 credit at the C- or D-level from among EES courses
5. At least 1.0 credit at the C- or D-level from among GGR courses
6. At least one additional 0.5 credit with a GGR prefix
7. At least one additional 0.5 credit with an EES prefix.

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: GGRP107Y

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: GGRP107Y

GGRA04H3 Geographic Information Systems (GIS) and Empirical Reasoning
Conformatory 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. Exclusion: (EESA05H, EESS03H, GGRP27H)

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 analyzed. Exclusion: GGR124H, (GGR124Y)

Prerequisite: [GGRA02H & GGRA03H] or IDS001H or alternative prerequisite with permission of the instructor.
Geography

GBR13H3 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.
Prerequisite: [GBRA42H or GBRA43H] or [SOCA01H & SOCA02H]

GBR20H3 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 risk of environmental awareness and activism, environmental policy, problems of sustainable development. Exclusion: GGB23Y3.
Prerequisite: GGBA52H or [GBSA01H & GBSA05H] or IDS802H

GBR25H3 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.
Prerequisite: One of GGBA402H, GGBA403H or HLT2A01H

GGR29H3 Supervised Readings in Human Geography
An independent supervised reading course open only to students in the Major Program in Human Geography. An independent literature review research project will be carried out under the supervision of an individual faculty member.
Prerequisite: 10 full credits including completion of the following requirements for the Major Program in Human Geography: 1) Introduction, 2) Theory and Concepts, 3) Methods; a cumulative GPA of at least 2.5.

GGR29H3 Population Geography
An examination of the geographical dimension to human population through the social dynamics of fertility, mortality and migration. This is not a quantitative course; emphasis will be given to qualitative methods. Themes include disease epidemics, international migration, reproductive technologies, and changing family structure.
Exclusion: GGB23Y3
Prerequisite: HLT2A01H & [GGBA402H or HLT2B01H]

GGR29H3 Urban Residential Geography
Household production; household governance and contracting; household economic behavior; housing demand, life course and housing career; housing policy and markets; dwelling maintenance and neighbourhood; social mix and segregation.
Exclusion: GGB357H
Prerequisite: University-level half-credit in data analysis and one of CTTB801H, EGBM201H, EGBM202H, GGBR05H, GGBB068H, GGBR278H, GGRZC71

GGR29H3 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.
Prerequisite: GGBR05H & [CTTB01H or GGBR045H]

GGR29H3 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.
Exclusion: GGR24H.
Prerequisite: University-level half-credit in data analysis & one of CTTB01H, EGBM201H, EGBM202H, GGBR05H, GGBZB01H, GGBR278H, GGRZC71

GGR29H3 Spaces of Multiculturalty: 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 underlying 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.
Limited enrolment: 25
Prerequisite: ANTB301H or GGBR30H or IDS802H or SOCA01H or WSTA01H or permission of instructor

GGR29H3 Issues in Rural Development
Special problems of rural communities and regions and associated development issues and strategies in north and south, with particular attention to the impact of urbanization and globalization on rural communities and their environments, to the structural causes of rural marginalization and to changes in rural development paradigms.
Prerequisite: [GGBB13H & GGRB20H] or [IDS802H & IDS802H]

GGR29H3 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.
Exclusion: [GGBB27H, GGBR30V]
Prerequisite: EGBM201H or EGBM202H

GGR29H3 Agriculture, Environment and Development
Changing social, economic and environmental relations of agriculture in the late twentieth century. Includes expansion of global agriculture, how this has affected conditions of agriculture at the farm and regional level and problems of achieving sustainable agriculture and food systems in an international development context.
Prerequisite: One of ANTC30H, ANTC40H, IDS802H, IDS803H, GGRB20H
GGRC3H3 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.
Prerequisite: GGRB05H & [CITB101H or (GGRB06H)]

GGRC4H3 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. Specific content will vary from year to year. Seminar format with active student participation.
Limited enrolment: 30
Prerequisite: GGRA02H & GGRA03H & one B-level full-credit in Human Geography

GGRC4H3 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.
Limited enrolment: 30
Prerequisite: GGRB05H or GGRB02H or ANTB161H or IDSBS01H or permission of instructor

GGRC4H3 Tourism, Environment and Development
Critical examination of the social, economic and environmental problems of tourism, with emphasis on trends and patterns of tourism growth at different geographical scales, and on the problems and contributions of tourism to sustainable development. A field trip during the reading week will be an optional feature of the course.
Prerequisite: GGRB201H or ANTB011H or [IDSBS01H & IDSBS02H]

GGRD101H3 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: 15 full credits including completion of the following requirements for the Major Program in Human Geography: 1) Introduction, 2) Theory and Concepts, 3) Methods, & a cumulative GPA of at least 2.5.

GGRD207H3 Countryside Conservation
Problems and policies of countryside with special focus on the Greater Toronto area. Topics include social valuation of countryside, impacts of urban sprawl, land use and environmental change, urban consolidation, farmland and green space protection, rural heritage conservation. Field research projects and workshops.
Limited enrolment: 25
Exclusion: (GGRC07H)
Prerequisite: [CITB101H or (GGRB06H), GGRRC98H & GGRC33H]

GGRD209H3 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.
Limited enrolment: 20
Prerequisite: [GGRB131H & GGRC138H] or WSTC201H or permission of instructor

GGRD210H3 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.
Limited enrolment: 25
Prerequisite: (GGRB131H or GGRB203H) & [GGRB02H or GGRC191H] or [HLTC02H & ANTC15H]
Global Asia Studies (BA)

Faculty List
P.C. Hsing, B.A. (National Chiao-Tung University), M.A. (Chinese Cultural University), M.A., Ph.D. (UCLA), Associate Professor
R. Bai, B.A., M.A. (Beijing Foreign Studies University), Ph.D. (Illinois), Assistant Professor
L. Chen, B.A. (Beijing Foreign Studies University), M.A. (SUNY Buffalo); J.D. (Illinois); M.A., M.P.A. (Columbia), Assistant Professor
J. Sharma, B.A. (Lady Shri Ram), M.A. (Hyderabad), M.PHI. (Delhi), Ph.D. (Cambridge), Assistant Professor
H.C.H. Shin, B.A., M.A., Ph.D. (Toronto), Associate Professor
C. Virgo, B.A. (UC Berkeley), M.A., Ph.D. (Harvard), Assistant Professor
X.Y. Wu, M.A., Ph.D. (Toronto), Senior Lecturer
N. Hermes, B.A. (Tamin), M.A. (Northern Iowa), Lecturer
E. Mills, B.Sc. (London), B.A. (Oxford), Lecturer
N. Sajid, B.A., M.A., M. Phil. (JNU), Lecturer
S.L.V. Wang, B.A., M.A., Ph.D. (Hawaii), Lecturer

Program Director: J. Sharma  Email: gas-program-supervisor@atmc.uottawa.ca

Global Asia Studies (GAS) is an area-focused, inter-disciplinary undergraduate program that places Asia within a dynamic global and diasporic context. It enhances our understanding of historical and contemporary global culture and politics by enabling students to engage in an extensive and intensive study of Asia and its diaspora. The program offers a comprehensive foundation of knowledge in particular areas and fields relevant to studying Asia. For example, see below for courses such as GAS401H1.

In upper-level courses, students investigate specific areas and problems pertaining to East and South Asia in greater depth. They are conducted in lecture and tutorial discussion format. For example, see courses such as GAS201H1.

Upper level D-level courses are conducted as small-group seminars where students make close and thorough studies of particular questions and present their findings in class discussions and research essays. For example, see courses such as GAS601H1.

The Global Asia Studies minor is designed for those students who wish to acquire a broad general knowledge of Asian societies and cultures. See requirements below.

The Global Asia Studies major and specialist programs are designed for those students who wish to acquire an intensive knowledge of Asia that spans a number of disciplines and fields and which will be helpful in their future career.

Language study in an essential component of the Global Asia Studies program and is particularly emphasized for those students who wish to move onto advanced studies of East or South Asia at 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 Arabic, Classical Chinese, Hindi, Japanese, Mandarin, Sanskrit, and Tamil. See requirements below.

Guidelines for 1st year course selection
Students who intend to complete a Global Asia Studies program should include GAS401H1 & GAS402H1 in their 1st year course selection. Students are also strongly encouraged to take HUMA01H1 (Exploring Key Questions in Humanities) as early as possible in their studies.

SPECIALIST PROGRAM IN GLOBAL ASIA STUDIES
Program Supervisor: J. Sharma  Email: gas-program-supervisor@atmc.uottawa.ca

Program Requirements
Students must complete 12.0 full credits as follows:
1. 1.0 credit must come from:
   GAS401H1 Introduction to Global Asia I
   &
   GAS402H1 Introduction to Global Asia II
2. 4.0 credits should be from any of the GAS core courses below:
   GAS601H1 Methodologies and Issues in Global Asia Studies
   GAS6000H1 Introduction to South Asian Literatures
   GAS6100H1 Introduction to Chinese Literature
   GAS6200H1 Gender and Social Institutions in Asia
   GAS6300H1 Asian Religions and Cultures
   GAS6310H1 Chinese Thought and Culture in Historical Perspective
   HBS577H1 Sub-continental Histories: South Asia and the World
3. An additional 2.5 credits can be from the above GAS core courses or from the electives below:

   ENG819H Contemporary Literature from South Asia
   MDSS974H Media and Globalization (formerly HUM874H)
   RLGC12H Contemporary Engaged Buddhist Movements in Asia
   VPHC577H Buddhist Arts and Cultures
   VPHC578H The Silk Routes
   VPHC579H Religion in the Arts: Hinduism and Jainism
   VPHC580H Religion in the Arts: Seminar in Buddhism and Art

4. 2.0 credits from any of the D-level courses listed below:

   GASD01H Senior Seminar: Topics in Global Asian Cultures
   GASD02H Senior Seminar: Topics in Global Asian Societies
   GASD03H Senior Seminar: Social Change and Gender Relations in Chinese Societies
   GASD04H Senior Seminar: Issues in Chinese Media Studies
   GASD05H Senior Seminar: Social and Cultural Aspects of South Asian Societies
   HISC566H Coelies and Others: Asian Labouring Diasporas in the British Empire
   HISC585H Culture, Politics, and Society in Late Imperial China

5. An additional 2.5 full credits should be from Asian language courses taught at the university, of which at least 1.5 credits should be from such courses taken at the B, C, or D levels. Preferably, these language courses will be taken in sequence as far as is practicable. The aim is for students to acquire linguistic competence in one or more Asian languages to aid in his or her future professional development. The LGG co-ordinator will guide students in choosing from the Asian language courses offered at the university.

MAJOR PROGRAM IN GLOBAL ASIA STUDIES

Program Supervisor: J. Sharma  Email: gas-program-supervisor@utsc.utoronto.ca

Program Requirements

Students must complete 7.5 full credits as follows:

1. 1.0 credit must come from:

   GASIA01H Introduction to Global Asia I

   &

   GASIA02H Introduction to Global Asia II

2. 2.5 credits should be from any of the GAS core courses below:

   GASSB01H Methodologies and Issues in Global Asia Studies
   GASB101H Introduction to South Asian Literatures
   GASB111H Introduction to Chinese Literature
   GASB201H Gender and Social Institutions in Asia
   GASB301H Asian Religions and Cultures
   GASB311H Chinese Thought and Culture in Historical Perspective
   GASCC11H Self and Imagination in Pre-modern China
   GASCC21H Art of Memory: China and the West
   HISSB57H Sub-continental Histories: South Asia and the World
   HISSB58H Modern Chinese History
   GASCT01H Gendering Global Asia
   GASCT02H Gendering Global Asia
   GASCT03H Media and Politics
   GASCT04H Media and Popular Culture in East and Southeast Asia
   GASCT05H Film and Popular Culture in South Asia
   GASCT06H Law and Society in East Asia
   GASCT07H Politics and Culture in Modern South Asia
   HISC571H China and the World

3. An additional 1.0 credits can be from the above GAS core courses or from the electives below:

   MDSS951H Media and Globalization (formerly HUM851H)
   ENGB19H Contemporary Literature from South Asia
4. At least 1.0 credits from any of the D-level courses listed below:
   - GASD201H Senior Seminar: Topics in Global Asian Cultures
   - GASD202H Senior Seminar: Social Change and Gender Relations in Chinese Societies
   - GASD203H Senior Seminar: Issues in Chinese Media Studies
   - GASD204H Senior Seminar: Social and Cultural Aspects of South Asian Societies
   - HISS205H Coolies and Others: Asian Labouring Diasporas in the British Empire
   - HISS206H Culture, Politics, and Society in Late Imperial China

5. An additional 2.0 full credits should be from Asian language courses taught at the university, of which at least 1.5 credits should be from such courses taken at the B, C, or D levels. Preferably, these language courses will be taken in sequence as far as is practicable. The aim is for students to acquire linguistic competence in one or more Asian languages to aid in his or her future professional development. The LGG coordinator will guide students in choosing from the Asian language courses offered at the university.

**MINOR PROGRAM IN GLOBAL ASIA STUDIES**

*Program Supervisor: J. Sharma Email: gas-program-supervisor@utsc.utoronto.ca*

**Program Requirements**

Students must complete 4.0 full credits as follows:

1. 1.0 credit must come from:
   - GASA01H Introduction to Global Asia I
   - GASA02H Introduction to Global Asia II

2. 2.0 credits should be from any of the courses below, of which at least 1.0 credit should be from C- or D-levels:
   - GASB01H Methodologies and Issues in Global Asia Studies
   - GASB101H Introduction to South Asian Literatures
   - GASB111H Introduction to Chinese Literature
   - GASB201H Gender and Social Institutions in Asia
   - GASB301H Asian Religions and Cultures
   - GASB311H Chinese Thought and Culture in Historical Perspective
   - HISS175H Sub-continental Histories: South Asia and the World
   - HISS185H Modern Chinese History
   - GASC201H Gendering Global Asia
   - GASC211H Self and Imaginaries in Pre-modern China
   - GASC221H Art of Memory: China and the West
   - GASC401H Chinese Media and Politics
   - GASC411H Media and Popular Culture in East and Southeast Asia
   - GASC421H Film and Popular Culture in South Asia
   - GASC501H Law and Society in East Asia
   - GASC511H Politics and Culture in Modern South Asia
   - HISC511H China and the World
   - ENGB101H Contemporary Literature from South Asia
   - RLG121H Contemporary Engaged Buddhist Movements in Asia
   - VPHB101H Buddha and Cultures
   - VPHC531H THE SILK ROUTES
   - VPHC551H Religion in the Arts: Hinduism and Jainism
   - VPHC551H Religion in the Arts: Seminar in Buddhism and Art
   - GASD201H Senior Seminar: Topics in Global Asian Cultures
   - GASD202H Senior Seminar: Social Change and Gender Relations in Chinese Societies
   - GASD203H Senior Seminar: Issues in Chinese Media Studies
   - GASD204H Senior Seminar: Social and Cultural Aspects of South Asian Societies
   - HISS205H Coolies and Others: Asian Labouring Diasporas in the British Empire
   - HISS206H Culture, Politics, and Society in Late Imperial China

3. An additional 1.0 credit should be from Asian language courses taught at the university. Preferably, these language courses will be taken in sequence as far as is practicable. The aim is for students to acquire linguistic competence in one or more Asian
languages to aid in his or her future professional development. The LGG coordinator will guide students in choosing from the
Asian language courses offered at the university.

GASB01H3 Introduction to Global Asia I
This course introduces Global Asia Studies through studying historical and political perspectives on Asia. Students will learn how to critically study and analyze major historical texts and events in order to better understand important cultural, political, and social phenomena in contemporary Asia as well as the globalized world.

GASB02H3 Introduction to Global Asia II
This course introduces Global Asia Studies through the study of particular cultural and social institutions in Asia.

GASB01H3 Methodologies and Issues in Global Asia Studies
This course introduces Global Asia Studies through studying methodologies and issues pertaining to the histories, societies and cultures of Asia, with specific reference to East and South Asia, and their diaspora. This course is recommended for Global Asia Studies specialists and majors.
Prerequisite: GASB01H3 or GASB02H3

GASB10H3 Introduction to South Asian Literatures
This course introduces students to a range of languages and literatures from South Asia and its regions and provides important cultural insights into these societies. Students also hone their skills in critical reading and writing. The primary texts for the course are translated into English from different South Asian languages.

GASB11H3 Introduction to Chinese Literature
This course offers a historical overview of Chinese literature and concepts of literary theory. It surveys Chinese literature since the 1910s, with a critical analysis of selected masterpieces of different genres in their socio-political and intellectual contexts. It is conducted in English, with primary texts translated from Chinese into English.

GASB20H3 Gender and Social Institutions in Asia
This course examines the role of gender in shaping social institutions in Asia.

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.

GASB31H3 Chinese Thought and Culture in Historical Perspective
This course surveys the history of thought and intellectual culture in China from the 7th through the 17th centuries. Topics studied include: the establishment of empires as a norm, literati culture; Neo-Confucianism; aesthetics and landscape painting; the literature of desire; and the contract with the West through Christianity.
Exclusion: EAS215H

GASB32H3 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 diaspora.
Limited enrolment: 50
Prerequisite: GASB01H3 or GASB02H3 or permission of instructor

GASC31H3 Self and Imagination in Pre-modern China
This course explores the evolving history of how the self was conceived in pre-modern China (from antiquity to the 12th century). Works studied include: Warring States philosophical treatises; Buddhist and Daoist texts on meditation and self-cultivation; literary theory and poetry; philosophical prose essays by literati; and painting.
Exclusion: EAS346H
Prerequisite: GASB01H3 or GASB02H3 or permission of instructor

GASC32H3 Art of Memory: China and the West
This course explores how thinkers in pre-modern China and Europe (from antiquity to the thirteenth century) conceived of memory. Reading through parallels as well as divergences, this course invites reflection on how thinking about memory is bound up with thinking about the self and about the sources of subjective identity.
Limited enrolment: 50
Exclusion: HBS389H
Prerequisite: GASB01H3 or GASB02H3 or permission of instructor

GASC46H3 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.
Limited enrolment: 50
Prerequisite: GASB01H3 or GASB02H3 or permission of instructor.
GASC49H3 Media and Popular Culture in East and Southeast Asia
This course introduces students to media industries and commercial popular cultural forms in East and Southeast 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 Asia.
Limited enrolment: 50
Exclusion: (HUMC54H3)
Prerequisite: GASA01H1 or GASA02H1 or MDSA01H1 or MDSB01H1 or HUMB74H1 or (NMEB20H3) or permission of instructor.

GASC49H3 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.
Limited enrolment: 50
Prerequisite: GASA01H1 or GASA02H1 or permission of instructor.

GASC50H3 Law and Society in East Asia
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.
Limited enrolment: 40
Prerequisite: HIBS59H1 or an equivalent B-level history course in East Asia or permission of instructor.

GASC51H3 Politics and Culture in Modern South Asia
This course studies the history of modern South Asia with an emphasis on the interplay of politics and culture as the region moved towards distinctive forms of Asian modernity and post-coloniality over the nineteenth and twentieth centuries.
Limited enrolment: 50
Prerequisite: HIBS59H1 or an equivalent B-level history course in East or South Asia or permission of instructor.

GASC61H3 Senior Seminar: Topics in Global Asian Cultures
This course offers an in-depth study of important cultural issues in historical and contemporary Asian and diaspora societies. Themes for study include music, art, cinema, media, literature, drama, and representations. It is conducted in a seminar format with emphasis on discussion, critical reading, and writing of research papers.
Limited enrolment: 15
Prerequisite: [GASA01H1 & GASA02H1 & 1 C-level course from list of courses under GAS program requirements 12] or permission of instructor.

GASC62H3 Senior Seminar: Topics in Global Asian Societies
This course offers a capstone experience of issues which confront Asian and diaspora societies. Themes include gender, environment, human rights, equity, religion, politics, law, migration, labour, nationalism, post-colonialism, and new social movements. It is conducted in a seminar format with emphasis on discussion, critical reading, and writing of research papers.
Limited enrolment: 15
Prerequisite: [GASA01H1 & GASA02H1 & 1 C-level course from list of courses under GAS program requirements 12] or permission of instructor.

GASC63H3 Senior 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 relations at the micro- and meso-level and structural changes at the macro-level through in-depth readings and research.
Limited enrolment: 15
Prerequisite: [GASA01H1 & GASA02H1 & 1 C-level course from list of courses under GAS program requirements 12] or permission of instructor.

GASC64H3 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 seminar course examines the complex and dynamic interplay of media and politics in contemporary China.
Limited enrolment: 15
Prerequisite: [GASA01H1 & GASA02H1 & 1 C-level course from list of courses under GAS program requirements 12] or permission of instructor.

GASC65H3 Senior Seminar: Social and Cultural Aspects of South Asian Societies
This course offers an in-depth study of important social and cultural aspects of South Asian societies. It is conducted in a seminar format with emphasis on discussion, critical reading, and writing of research papers.
Limited enrolment: 15
Prerequisite: [GASA01H1 & GASA02H1 & 1 C-level course from list of courses under GAS program requirements 12] or permission of instructor.
Health Studies
(B.A./B.Sc.)

Faculty List
F. D. Burton, B.Sc., M.A., (NYU), Ph.D. (CUNY), Professor Emeritus
A. E. Birt, B.A. (Harvard), M.A. (University of Canterbury), Sc.D. (Johns Hopkins), Associate Professor
M. Hunter, B.A., (Sussex), M.A. (Univ. of Natal), Ph.D. (Univ California, Berkeley), Assistant Professor
M. Silver, B.A., B.S., & M.P.P. (Univ California, Berkeley), Ph.D. (Univ of Chicago), Assistant Professor

Undergraduate Counsellor: J. Keppatree
Email: social-sciences-counsellor@stc.utoronto.ca

Health is an extremely important area of study, both a biological, social, and policy perspective. Social scientists consider a wide range of questions, such as: How does individual behaviour affect health? How can we design health care systems and public policy so as to promote health? How does health vary over the life course and between men and women? What can be learned from large scale survey data about health patterns? The Health Studies Programs combine relevant courses from a range of disciplines, of interest to students who may apply to graduate Programs in health or work in health and related professions. Students in Health Studies are encouraged to combine their program with another major in a relevant discipline.

Guidelines for 1st year course selection
Students intending to complete a program in Health Studies should take one of the following sets of courses in first year: [ANTA001H & ANTA021H] or [BGYA01H & BGYA02H] or [ECMA01H & ECMA02H] or [GGRA02H & GGRA03H] or [PSYA01H & PSYA02H] or [SOCAS01H & SOCAS03H].

Note: It is Department policy that students must meet all relevant prerequisites, exceptions will be made only in the case of special circumstances. Students should check carefully the prerequisites required for particular B- and C-level courses. Note that some courses (e.g., BGY, ECM & SOC) are part of limited enrollment programs, with first preference in these courses going to students enrolled in those programs.

MAJOR (CO-OPERATIVE) PROGRAM IN HEALTH STUDIES
Co-op Contact: askcoop@stc.utoronto.ca

Program Admission
This is a limited enrolment program, which must be completed in conjunction with another Major as part of a 4-year degree. For information on admissions, fees, work terms, and standing in the program, please see the Co-operative Programs section of this Calendar.

Minimum qualifications for entry following first year: 4.0 credits, including 1.0 from [ANTA01H & ANTA02H] or [ECMA01H & ECMA02H] or [GGRA02H & GGRA03H] or [PSYA01H & PSYA02H] or [SOCAS01H & SOCAS03H] plus a cumulative GPA of at least 2.5.

Program Requirements
Work terms will be in the health and health-related sectors, and may be in public institutions, in research institutions, and in the private sector. There are two work terms, each of 4 months. In order to be eligible for the first work term, students must complete at least 9 full credits, including the requirement in sections 1 and 2 plus any 1.0 credit from among requirements 3 and 4 below. In addition, they must complete the non-credit Arts & Science Work Term Preparation course.

Course Requirements
See requirements for Major Program in Health Studies. In addition, students are required to include HLTD02H, Health Research Seminar.
MAJOR PROGRAM IN HEALTH STUDIES (B.A./B.S.C.)

Program Requirements
This program requires a minimum of 7.0 full credits as follows:

1. Methodology.
   1.5 credits from one of the following groups:
   [ANTAO1H & ANTAR1H & ANTC60H]
   or
   [BGYA01H & BGYA02H & BGYB10H]
   or
   [EICMA01H & ECMA05H & ECMBO1H]
   or
   [GGRA02H & GGRA03H & GGRB05H]
   or
   [PSYA01H & PSYA02H & PSYB01H]
   or
   [SOCDA0H & SOCDA0H & SOCB03H]

2. Quantitative Methods.
   0.5 credit from:
   ANTC35H Quantitative Methods in Anthropology
   ECMB11H Quantitative Methods in Economics I
   GGRA30H GIS and Empirical Reasoning
   PSYB07H Data Analysis in Psychology
   SOCB06H Social Statistics
   STAB22H Statistics I

3. Introduction to Health.
   At least 3 credits from:
   ANTH11H Biological Anthropology: Beginnings
   ANTH15H Contemporary Human Evolution and Variation
   ANTH19H Varieties of Social Life
   ANTH20H Culture, Politics and Globalization
   ANTH56H Health and the Urban Environment
   EESA10H Human Health and the Environment
   GGRD28H Geographies of Disease
   HLTAD0H Plagues and Peoples
   HLTB01H Health, Aging and the Life Cycle
   HLTB02H Issues in Child Health and Development
   HLTB03H Foundations in Health Studies
   IDSB04H International Health Policy Analysis
   PHLH09H Biomedical Ethics
   PSYB22H Abnormal Psychology
   PSYB65H Human Brain and Behaviour

   At least 1.5 credits from:
   ANTC61H Medical Anthropology: Illness and Healing in Cultural Perspective
   ANTC62H Medical Anthropology: Biological and Demographic Perspectives
   ANTC63H The Anthropology of Food: Human Needs
   ANTC64H The Anthropology of Food: Consuming Passions
   ANTC67H Foundations of Epidemiology
   ANTC68H Deconstructing Epidemics
   ANTD01H The Body in Culture and Society
   ANTD17H Medical Osteology: Public Health Perspectives on Human Skeletal Health
   ANTD23H Ethnomedicine
   ANTD24H Primatology: Public Health Perspectives on Zoonotic Diseases
   BGYC17H Microbiology I: The Bacterial Cell
   BGYC21H Vertebrate Histology: Cells and Tissues
   BGYC22H Vertebrate Histology: Organs
   ECMC34H Economics of Health Care
   GGRB10H Health and Sexuality
   HLTCD09H Directed Research on Health Services and Institutions
   HLTCD28H Women and Health: Past and Present
   HLTDD1H Directed Readings in Health Studies
   HLTDD2H Health Research Seminar
MINOR PROGRAM IN HEALTH STUDIES (B.A.)

Program Requirements
This program requires 4 full credits as follows:

1. Introduction to Health
   - 2.5 full credits from:
     - ANTB14H1 Biological Anthropology: Beginnings
     - ANTB15H1 Contemporary Human Evolution and Variation
     - ANTB50H1 Health and the Urban Environment
     - GGRB28H3 Geographies of Disease
     - HLTB01H3 Health, Plagues and Peoples
     - HLTB01H1 Health, Aging and the Life Cycle
     - HLTB02H1 Issues in Child Health and Development
     - HLTB03H1 Foundations in Health Studies
     - IDSB04H1 International Health Policy Analysis

2. Advanced Health
   - 1.5 full credits from:
     - ANTC03H3 Medical Anthropology: Illness and Healing in Cultural Perspective
     - ANTC04H3 Medical Anthropology: Biological and Demographic Perspectives
     - ANTC05H3 The Anthropology of Food: Human Needs
     - ANTC06H3 The Anthropology of Food: Consuming Passions
     - ANTC67H3 Foundations in Epidemiology
     - ANTC08H1 Deconstructing Epidemics
     - ANTD01H3 The Body in Culture and Society
     - ANTD75H3 Medical Osteology: Public Health Perspectives on Human Skeletal Health
     - ANTD23H3 Ethnomedicine
     - ANTD29H3 Paleopathology: Public Health Perspectives on Zoonotic Diseases
     - ECML34H1 Economics of Health Care
     - GRDC10H1 Health and Sexuality
     - HLTCD2H1 Directed Research in Health Services and Institutions
     - HLTCD2H2 Women and Health: Past and Present
     - HLTCD1H1 Directed Readings in Health Studies
     - IDSC11H1 Issues in International Health
     - POLC53H1 The Politics of Canadian Health Policy

3. For this program, no more that 2.0 full credits can be counted from any single course prefix (e.g., ANT) other than HLT

HLTA01H3 Plagues and Peoples
Considers the origins, antiquity and impact of plagues on human societies. The course will embrace cultural, evolutionary, epidemiological and ecological themes. Consideration will be given to historic, contemporary and newly-emerging infectious epidemics, with a view to understanding why "plagues" emerge and how their occurrence is intimately linked to human behaviour.

HLTB01H3 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: HLTB01H1 or [ANTA01H3 & ANTAG2H3] or [BOYA01H3 & BOYA02H] or [PSYA01H3 & PSYA02H]

HLTB02H1 Issues in Child Health and Development
This course will explore socio-cultural 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: HLTA01H1 or [ANTA01H3 & ANTAG2H3] or [BOYA01H3 & BOYA02H] or [PSYA01H3 & PSYA02H]
History
(B.A.)

Faculty List
J.S. Moir, M.A., Ph.D. (Toronto), D.D. (Presh College, Montreal), Professor Emeritus
J.R. Robertson, M.A. (McGill), Ph.D. (Toronto), Professor Emeritus
E.W. Dowler, A.M. (Harvard), Ph.D. (London School of Economics), Professor
M. Ekoine, B.A. (Toronto), B.Phil., D.Phil. (Oxon.), Professor
M. Gervet, A.B. (Princeton), M.A. (Petersen), Ph.D. (Toronto), Professor
F. Iacovetta, M.A., Ph.D. (York, Canada), Professor
S.F. Ricket, M.A., Ph.D. (Toronto), Associate Professor
D.E. Bender, M.A., Ph.D. (New York), Assistant Professor
K. Blein, B.A., M.A., Ph.D. (Laval and Nice), Assistant Professor
L. Chen, B.A. (Beijing Foreign Studies Univ.), M.A. (SUNY Buffalo), J.D. (Illinois); M.A.; M.Ps. (Columbia), Assistant Professor
R.A. Kanal, M.A., Ph.D. (Pennsylvania), Assistant Professor
C.J. Pennington, B.A. (York, Canada), Ph.D. (Toronto), Assistant Professor
E.N. Rothman, M.A. (Tel Aviv), Ph.D. (Michigan), Assistant Professor
J. Sharma, B.A. (Lady Shi Ram), M.A. (Hindu), M.Phil. (Delhi), Ph.D. (Cambridge), Assistant Professor

Program Director: W. Dowler (416-287-7163) Email: dowler@utm.utoronto.ca

The study of history is intended to enhance our understanding of human society by examining the experiences of particular peoples and their societies in the past. Its findings depend upon the precise evaluation of specific evidence. History's concerns and goals are humanistic: its methods draw from all forms of scholarly endeavor. History courses, therefore, can play a part in a number of interdisciplinary programs and can serve as an adjunct to courses in Politics, Philosophy, Literature, Economics, Sociology, and Anthropology. History can also be usefully combined with language study.

The History curriculum combines a variety of approaches and teaching in order to satisfy a number of purposes. HIS101H, HIS102H, HIS401H and HIS501H provide a general introduction to the study of history at the university level, and the preparation for further studies in World history. A series of survey courses (HIS302H-911H) provides a comprehensive foundation of knowledge in particular areas. In upper-level courses students investigate more specific areas, periods, or problems. D-series courses
are conducted as seminars. In them students make close and thorough studies of particular questions and present their findings in discussions and major essays. There are courses at all levels in the following areas and periods of history: Medieval Europe, Modern Europe (including Britain and Russia), Canada, the United States, the Ancient World, Africa, Asia, and Latin America.

Knowledge of 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 or enrolment in the Specialist Program in History—Language Stream.

The History Study Guide is available at: http://www.utm.utoronto.ca/~humdiv/Historystudyguide/

Guidelines for 1st year course selection

Students intending to complete a program in History should take two of the following courses in the first year: HIS A01H, HIS A02H, HIS A04H & HIS A05H.

Note: The History discipline urges students who plan to specialize or major in History to take HUM A01H (Exploring Key Questions in Humanities) at the beginning of their studies.

Note: Students are advised to consult the prerequisites for C-level and D-level courses when planning their individual programs.

Note: For Co-op opportunities related to the Specialist and Major Programs in History, please see the Humanities section of this Calendar.

SPECIALIST PROGRAM IN HISTORY

Program Supervisor: R. Kazali (416-287-7133) Email: history-program-supervisor@utm.utoronto.ca

Program Requirements

1. Number of Credits

Students must complete at least ten full credits in History. These ten must include two of HIS A01H, HIS A02H, HIS A04H, HIS A05H, as well as HIS B03H, HIS C01H and five upper-level full credits (C-/D-level courses at U of T Scarborough or 300/400-level courses on the St. George Campus or at U of T Mississauga). At least one of the five upper-level credits must be at the D-level.

2. Pre-1800 Credits

Of the ten credits, at least two full credits must deal with the period prior to 1800.

3. Areas of Study

Students must include:

- At least one full credit in Canadian History, and
- At least one half credit from each of three of the following areas of history:
  a) United States and Latin America
  b) Medieval
  c) Europe
  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 1.5 credits in a single language.

MAJOR PROGRAM IN HISTORY

Program Supervisor: R. Kazali (416-287-7133) Email: history-program-supervisor@utm.utoronto.ca

Program Requirements

1. Number of Credits

Students must complete seven full credits in History. These seven must include two of HIS A01H, HIS A02H, HIS A04H, HIS A05H, as well as HIS B03H and three upper-level full credits (C-/D-level courses at U of T Scarborough or 300/400-level courses on the St. George Campus or at U of T Mississauga).

2. Pre-1800 Credits

Of the seven credits at least 1.5 credits must deal with the period prior to 1800.

3. Areas of Study

Students must also include at least one half credit from each of three of the following areas of history:

- Canadian
- United States and Latin America
- Medieval
- European
- Africa and Asia
- Transnational
- Ancient World
MINOR PROGRAM IN HISTORY
Program Supervisor: R. Lazar (416-287-7133) Email: history-program-supervisor@u.of.utoronto.ca

Program Requirements
Students must complete four full credits in History, of which at least one full credit must be at the C- and/or D-level.

HIS0A04H3 The Twentieth Century World I
World history from the age of imperialism to the end of World War II, emphasizing both the diversity and the commonality of human experience in the twentieth century. Major themes include imperialism, war, revolution, totalitarian ideologies, social, economic, and cultural change, nationalism.

HIS0A02H3 The Twentieth Century World II
World history from the end of World War II to the present day, emphasizing both the diversity and the commonality of human experience in the twentieth century. Major themes include decolonization, economic change, the Cold War, the communications revolution, the development crisis, struggles for human rights and democracy.
Exclusion: HIS0A03Y
Prerequisite: HIS0A01H

HIS0A04H3 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; empire; cultural encounters; history and film; global cities.

HIS0A05H3 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; empire; cultural encounters; history and film; global cities.

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.
Exclusion: HISB01H

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. Limited enrolment: 25
Exclusion: HISB001H

HISB18H3 History on Film
An examination of selected historical events or phenomena and their depiction in film. This course will explore the ways in which historical events, such as revolutions, or phenomena such as slavery, have been portrayed by filmmakers. The topics to be studied will change from year to year.
Exclusions: HISB29H1, HISB49H

HISB20H3 Victorian Britain
An introduction to Victorian Britain offering a broad survey of economic, social, and political trends. Central themes include the industrial revolution and workers' movements, popular protest and state responses, women and family, social welfare, Irish nationalism, and the urban poor.
Exclusions: HISB29H1, HISB49H

HISB21H3 Twentieth-Century Britain
An introduction to twentieth-century Britain offering a broad survey of economic, social, and political trends. Central themes include gender and war, the "modern" welfare state, Labour party, and post-1945 politics. Attention will be paid to the influence of class, gender, and culture on social experience, ideology, and political movements.
Exclusions: HISB29H1, HISB49H
Prerequisite: HISB20H

HISB30H3 American History to the Civil War
A survey of American history from contact between Indians and Europeans up through the Civil War. Topics include the emergence of colonial societies; the rise and destruction of racial slavery; revolution and republic-making; economic and social change in the new nation; western conquest; and the republic's collapse into civil war.
Exclusions: HISB29H1, HISB49H

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.
Exclusions: HISB29H1, HISB49H
Prerequisite: HISB30H

HISB40H3 Canadian History to 1885
The history of Canada from the first European contacts to the late 19th century. Topics include the earliest European contacts, New France, the British Conquest, immigration and settlement, Confederation, its constitution, and the early development of Canada as a transcontinental country.
Exclusions: HISB29H1, HISB49H
HIS541H3 Canadian History Since 1855
Topics include cultural conflict: the optimism of the Laurier period, the impact of the two world wars, political independence, Americanization and relations with the United States, regionalism, and relations between English-speaking and French-speaking Canada.
Canadian Area
Exclusion: HIS252Y, HIS263Y
Prerequisite: None, but HIS408/H highly recommended.

HIS505H3 Africa in the Nineteenth Century
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
Prerequisite: Any modern history credit or AFSA201H or permission of the instructor.

HIS515H3 Twentieth Century Africa
Modern Sub-Saharan Africa, from the colonial conquests to the post-colonial era of structural adjustment. The emphasis is on both structure and agency in a hostile world. Themes include conquest and resistance; colonial economies; gender and ethnicity; religious and political movements; development and under-development, post-colonial conflicts, as well as cultural achievements.
Africa and Asia Area
Exclusion: HIS251H, HIS296Y, (HIS396Y).
Prerequisite: Prerequisite: HIS150H or (HIS151H)

HIS575H3 Sub-Continental Histories: South Asia in the World
A survey of South Asian history, from ancient times to the present day. The course explores diverse and exciting elements of this long history, such as ecology and landscape, religion, trade, literature, and the arts, keeping in mind South Asia's global and diasporic connections.
Africa and Asia Area
Exclusion: HIS282Y, HIS283H

HIS885H3 Modern Chinese History
This course provides an overview of the historical changes and continuities of the major cultural, economic, political, and social institutions and practices in modern Chinese history.
Africa and Asia Area
Exclusion: HIS280Y

HIS890H3 Europe in the Early Middle Ages (305-1053)
This course covers the development of Europe from the Late Roman period to the eleventh-century separation of the Roman and Byzantine Churches. It 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 materialism.
0.50 pre-1800 credit
Medieval Area
Exclusion: HIS220Y

HIS891H3 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: HIS229Y
Prerequisite: none, but HIS408/H highly recommended.

HIS892H3 The Early Modern Mediterranean, 1500-1600
This course will explore the interplay of culture, religion, politics and commerce in the Mediterranean region from 1500 to 1600. 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.

HIS870H3 Kievan Rus and Muscovy, 850-1669
The early history of present-day Ukraine and Russia from origins to the beginnings of empire.
Topics include Christianisation, Kievan society and law, the Mongol conquest, the rise of Muscovy, the growth of the autocratic state, early European contacts and the Church schism.
0.50 pre-1800 credit
European Area
Exclusion: HIS250Y

HIS871H3 Imperial Russia, 1682-1900
The history of the Russian Empire from Peter the Great to the dawn of the twentieth century.
We will examine through lectures and tutorials the evolution of imperial institutions, war, emancipation of the serfs, industrialization, emergence of social classes, reforms and revolution, the flowering of Russian art and literature.
European Area
Exclusion: HIS250Y

HIS872H3 Revolutionary Russia, 1900 - Present
The history of Russian Empire and the Soviet Union from the 1905 revolution to the present.
Major topics include the revolutions of 1905 and 1917, the experimentallism of the 1920s, collectivisation and industrialisation, the Stalin cult, the disintegration of Stalinism and the end of the USSR.
European Area
Exclusion: HIS250Y

HIS893H3 Early Modern Europe I: 1450-1650
A period of fundamental, often violent, change in European civilization. Renaissance, humanitarianism, and printing; development of new types of monarchy, religious reformations; splitting of Western Christendom; local and continental wars; exploration and the first European empires.
0.50 pre-1800 credit
European Area
Exclusion: HIS243H
HISB81H3 Early Modern Europe II: 1600-1800
Social, political, and intellectual transformations culminating in revolution. Thirty Years War; witchcraft and science; Louis XIV and absolutist statecraft; the Enlightenment; the agricultural revolution; slavery; European empire; the French Revolution. 0.50 pre-1800 credit
European Area
Exclusion: HIS244H
Prerequisite: None, but HISB40H recommended

HISB90H3 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

HISB91H3 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

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.
Exclusion: HISB01H
Prerequisite: HISB03H

HISC14H3 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
Prerequisite: Two of HIS4A0H, HIS4A02H, HIS4A04H, HIS4A05H

HISC15H3 Europe and the Atlantic World, 1450-1800
This course investigates Europe's encounter with the Americas and western Africa (ca. 1450-1800). Specific topics include European exploration, the transplanted of European societies abroad, the impact of conquest and colonisation, and the role played by these non-European peoples in reshaping European ideas about cultural difference, gender, religious belief, and society.
0.50 pre-1800 credit
European Area
Limited enrolment: 40
Prerequisite: Any 4.0 credits

HISC18H3 Europe in the Enlightenment, 1700-1789
An examination of the ideals of the Enlightenment against the backdrop 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
Exclusion: HIS244H, HIS314Y
Prerequisite: 1.0 credit at B-level in European history

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
Limited enrolment: 40
Prerequisite: HISB31H

HISC33H3 Modern American Political Culture
This course examines the relationship between culture and politics in modern American history. It 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
Limited enrolment: 40
Prerequisite: [HISB31H & HISB31H] or permission of instructor.

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 era, assimilation, and the role played by these non-European peoples in reshaping European ideas about cultural difference, gender, religious belief, and society.
0.50 pre-1800 credit
European Area
Limited enrolment: 40
Prerequisite: Any 4.0 credits

HISC44H3 Quebec: Since 1759
Thess will include "survival" as an issue; "nationalism" and its variant: immigration and the relationship of the majority with minorities; Confederation; the impact of the two world wars, the "Quiet Revolution" in the 1960s; the growth of a movement for independence. Knowledge of the French language is not required.
Canadian Area
Exclusion: HIS14Y, HIS413H
Prerequisite: HISB40H & HISB41H
HISC449H3 Immigrants and Race Relations in Canadian History
This course examines aspects of the history of immigrants and race relations in Canada, particularly for the period 1840s-1960s. It 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

HISC448H3 Introduction to Canadian International Relations
A survey of Canada's place in the world from its origins to the present day, with an emphasis on the post-Confederation period. Topics covered will include Canada's evolving role in the British Empire, Canadian-American relations, the World Wars, the Cold War, peacekeeping, and the question of national identity.
Canadian Area
Exclusion: HIS331H, HIS311Y
Prerequisite: Any four credits
Recommended preparation: HIS340H1 & HIS441H

HISC474H3 Canadian Labour History
The development of a working class from the pre-industrial era of independent artisans to the modern period. Topics will include the impact of technology on workers, ethnic factors, the development of unions, such pivotal events as the Winnipeg General Strike, and the relationship of labour to politics.
Canadian Area
Exclusion: HIS331H, HIS313Y
Prerequisite: HIS404H1 & HIS441H

HISC552H3 A History of Ethiopia
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.
0.50 pre-1800 credit
Africa and Asia Area
Prerequisite: A History credit considering Europe, Africa or Asia before 1900.
Highly recommended: One of (HIS403H1, HIS403H2, HIS506H1 or HIS506H2)

HISC553H3 Topics in Asian History
A topical study of the cultures, peoples and states of South and Southeast Asia. Topics may include India in the eighteenth century, Official and Missionary Orientalism, emergence and development of Indian nationalism, formation of ethnic and gender identities, Muslim revival and separatism, partition and post-partition politics and society.
Asia and Africa Area
Exclusion: HIS364H1
Prerequisite: One full credit in History

HISC559H3 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.
Africa and Asia Area
Prerequisite: HIS550H1 or HIS511H or (HISC501H or HIS451H) or permission of the instructor

HISC573H3 China and the World
This course studies 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.
Asia and Africa Area
Limited enrolment: 40
Prerequisite: Any 4.0 credits
Recommended: HIS556H

HISC583H3 Delhi and London: Imperial Cities, Mobile People
Delhi and London were two major cities of the British Empire. This course studies their parallel destinies, from the imperial into the post-colonial world. It explores how diverse cultural, ecological, and migratory flows connected and shaped these cities, using a wide range of literary, historical, music, and film sources.
Transnational Area
Prerequisite: (Two of HIS303H1, HIS302H, HIS304H, HIS405H) or 1.0 credit in Modern History

HISC585H3 Old Worlds? Strangers and Foreigners in the Mediterranean, 1200-1700
An exploration of how medieval and early modern societies encountered foreigners and accounted for foreigners, 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.
0.50 pre-1800 credit
Transnational Area
Limited enrolment: 30
Corequisite: At least one of HIS560H1, HIS561H or HIS562H

HISC586H3 Venice and its Empire, 800-1800
Social and cultural history of the Venetian Empire from a fisherman'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 and spiritual identity, guilds and confraternities, households and families.
0.50 pre-1800 credit
European Area
Prerequisite: 1.0 credit in History

HISC595H3 Venice and its Empire, 800-1800
HISC791H3 Social History of Imperial Russia, 1700-1900
The development of Russian society from the revolutionary reforms of Peter the Great to the counter-revolutionary reforms of Alexander III.
Topics include peasant society, the nobility, women, urbanization, and proletarianization.
European Area
Prerequisite: HIS3972H or any 2.5 credits in HIS

HISC993H3 History of Revolutionary Russia, 1900-Present
Social change in Russia and the USSR from the 1905 revolution to the end of the Soviet Union.
Topics include the social processes that produced the revolutions of 1905 and 1917, social experimentation in the 1920s, Stalinism and its disintegration and the social background to the breakup of the USSR.
European Area
Exclusion: HIS331H, HIS331Y
Prerequisite: HIS3972H or any 2.5 credits in HIS

HISC994H3 Modern Germany I: The Nineteenth Century
German history from the end of the Holy Roman Empire to the outbreak of the First World War. The rise of Prussia, the impact of political and industrial revolution, the unification of modern Germany, the imperial age, science, technology, art and music are among the themes pursued.
European Area
Exclusion: HIS317H, HIS317Y, HIS330H
Prerequisite: HIS399H

HISC995H3 Modern Germany II: The Twentieth Century
German history from the First World War to the present day. The two world wars, the Weimar Republic, the rise of Hitler, the Third Reich, the Holocaust, the division of Germany, the Cold War, European Union, and German reunification are among the topics covered.
European Area
Exclusion: HIS317H, HIS317Y
Prerequisite: HIS399H

HISD09H3 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.
History Faculty
Exclusion: HIS499H, HIS499H, HIS499H
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.

HISD03H3 History of Animals and People
This course examines the places of animals in global history. It 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.
Transnational Area
Limited enrolment: 15
Prerequisite: Any 2.5 credits in History or permission of instructor

HISD04H3 Missionaries and Converts in the Early Modern World
This seminar will explore 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
Limited enrolment: 18
Prerequisite: HIS308H or HIS381H or permission of instructor

HISD05H3 Between Two Worlds? Translators and Interpreters in History
This seminar explores the social history of translators, interpreters, and the texts they produce. Through several case studies from Ireland and Istanbul to Quebec, Mexico City and Goa, we will ask how translators shaped public understandings of the “self” and “other,” “civilization” and “barbarity” in the wake of European colonization.
Transnational Area
Limited enrolment: 15
Prerequisite: [HIS392H & HIS368H] or permission of instructor

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 democracy in different cultures across time and space.
Transnational Area
Limited enrolment: 15
Prerequisite: Two half credits in History and/or Global Area Studies at or above II-level or permission of the instructor.

HISD08H3 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
Limited enrolment: 15
Prerequisite: [HIS300H & HIS31H] or permission of instructor.
HIS035H3 Thinking of Diversity: Perspectives on American Pluralism
A seminar exploring the evolution of American thinking about diversity—ethnic, religious, and regional—from colonial-era definitions 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
Limited enrolment: 15
Prerequisite: [HIS030H & HIS031H] or permission of instructor

HIS034H3 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
Limited enrolment: 15
Prerequisite: HIS030H & HIS031H

HIS035H3 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 these 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
Limited enrolment: 15
Prerequisite: HIS031H

HIS036H3 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 ascendency, tracing the rise and fall of New Deal liberalism and the subsequent rise of the New Right.
United States and Latin America Area
Limited enrolment: 15
Prerequisite: HIS031H

HIS038H3 Topics in American Urban History: New York City
An examination of the rise of American cities and the problems associated with urban life through the lens of the nation’s largest and most diverse city, from its founding to the present day. Topics will include: Native Americans, colonial trade, industrialization, social and political movements, urban policy, suburbanization, and immigration.
United States and Latin America Area
Limited enrolment: 15
Prerequisite: [HIS030H & HIS031H] or permission of instructor

HIS040H3 Canadian Political Leadership, 1608 to Present
A seminar course that investigates the tradition of political leadership in Canada, from New France to the present day, with an emphasis on the post-Confederation period and the governing styles of major figures such as Sir John A. Macdonald, William Lyon Mackenzie King, and Pierre Trudeau.
Canadian Area
Limited enrolment: 15
Prerequisite: HIS040H & HIS041H
Recommended preparation: A C-level Canadian History course

HIS042H3 Selected Topics in Canadian Diplomatic and Military History
A seminar course that takes a case-study approach and examines important controversies in the history of Canadian warfare and diplomacy. Specific topics will vary from year to year.
Canadian Area
Limited enrolment: 15
Exclusion: HIS040Y
Prerequisite: [HIS040H & HIS041H] or HIS046H

HIS046H3 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.
Canadian Area
Limited enrolment: 15
Prerequisite: Any credit in Canadian history

HIS047H3 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; suburban, and sexuality.
Canadian Area
Limited enrolment: 15
Prerequisite: HIS041H & at least one other B- or C-level credit in History

HIS050H3 Southern Africa, 1652-1910
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, slavery, the frontier, the mineral revolution and the South African War. Extensive reading and student presentations are required.
Africa and Asia Area
Limited enrolment: 15
Prerequisite: HIS050H or [HIS050H] or any 2 credits in History or permission of instructor
HISD51H3 Southern Africa: Colonial Rule, Apartheid and Liberation
A seminar study of southern African history from 1910 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. Africa and Asia Area. Limited enrollment: 15 Prerequisite: HISD50H4

HISD52H3 East African Societies in Transition
A seminar study of East African peoples from late pre-colonial times to the 1990's, emphasizing their rapid although uneven adaptation to integration of the region into the wider world. Transitions associated with migrations, commercialization, religious change, colonial conquest, nationalism, economic development and conflict, will be investigated. Student presentations are required. Africa and Asia Area. Limited enrollment: 15 Prerequisite: [One of HISB50H1, HISB51H1, (HISC50H1), (HISC51H1)] or any 2.5 credits in History or permission of instructor

HISD54H3 State Formation in Precolonial Southeast Asia, c. 1750-1879
An examination of the structural changes in Southeast Asian politics during the last century before high imperialism. Case studies on, among other topics, administrative reforms, political ideologies, territorial integration, revenue patterns, and the political role of religion will be related to broader themes such as the origin of imperialism intrusion and the emergence of the modern national state. Africa and Asia Area Limited enrollment: 15 Prerequisite: Two B- or C-level credits in History, or permission of the instructor.

HISD56H3 'Coolie' and Others: Asian Labouring Diasporas in the British Empire
'Coolie' labourers formed an imperial diaspora linking South Asia and China to the Caribbean, Africa, the Indian Ocean, South-east Asia, and North America. The long-lasting results of this history are evident in the cultural and ethnic diversity of today's Caribbean nations and Commonwealth countries such as Great Britain and Canada. Africa and Asia Area Prerequisite: [One of HISB20H1, HISB21H1, HISB40H1, HISB50H1, HISB55H1, (HISB60H1), HISB57H1, HISB90H1, HISC41H1, HISC22H1, HISC22H2, HISC36H1, HISC43H1, (HISC47H1), HISC58H1 or HISB60H1] or 2.0 credits at the B- or C-level in Modern History.

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. Limited enrollment: 15 Prerequisite: 8.0 credits including GAS30H1 or HISB38H1

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 fiction, private/state violence, laws of ethnicity, prison reforms and modernisation. Africa and Asia Area Limited enrollment: 15 Prerequisite: HISD50H4

HISD60H3 Travelling and Travel-Writing from the Middle Ages to the Early Modern Period
The development of travel and travel narratives before 1800, and their relationship to trade and colonization in the Mediterranean and beyond. Topics include: Marco Polo, pilgrimage and crusading, the history of geography and ethnography. Extensive reading, oral presentations, and a final paper based on research in primary documents are required. 0.50 per-1800 credit

HISD63H3 The Crusades: I
Modern interpretations of the Crusades will be investigated in the context of Western expansion into the Middle East (1099-1291), 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 per-1800 credit

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 per-1800 credit

HISD65H3 The Crusades: III
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 per-1800 credit

HISD66H3 The Crusades: IV
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 per-1800 credit
HIS050H3 Warburg Culture
An examination of the social and political foundations of "modernism," using the cultural ferment of Germany between 1918 and 1933 as model. Individual artists and thinkers will be considered, but the emphasis will nevertheless be on culture as a social manifestation.
European Area
Limited enrolment: 15
Prerequisite: One C-level credit in European History.

Humanities
(B.A.)

Faculty List
R. Helms-Park, M.A., Ph.D. (Iowa), Associate Professor
M. Avish, B.A. (Hassan II), M.A., Ph.D. (Case Western Reserve), Lecturer
N.C. Johnston, M.A., Ph.D. (York, Canada), Lecturer
E. Khoi, B.Sc., Ed. (USM), M.A. TESOL (Reading), Ph.D (USQ), Lecturer
S.D. King, M.A., Ph.D. (Western), Lecturer
M. Petit, M.A., Ph.D. (Colorado), Lecturer
C. Smith, Lecturer

As a field of inquiry, Humanities is concerned with the study of human culture that is both diverse and interconnected, and examines how we construct our aesthetic, intellectual, spiritual, moral, social, and political worlds.

At a program to knowledge, Humanities is based on critical inquiry that is markedly distinct from the empirical methods of the sciences. Humanities focuses on the subjective constructions of the world around us as well as identifies and human expressions.

Humanities comprises several distinct programs, such as African Studies, Classical Studies, Cognitive Science, Diaspora and Transnational Studies, English, French, Global Asia Studies, History, Humanities Co-op, Interactions, Encounters in the Humanities, Journalism, Languages and Linguistics, Media Studies, Philosophy, Religion, Visual and Performing Arts, and Women's Studies. Each of these is listed under its own heading in the Calendar and offers a range of courses in its own program(s) of study. The Humanities Department also offers, under the rubric HUM, courses which fall outside the purview of the individual Humanities disciplines. These courses help establish an intellectual context in which students can explore different approaches to learning and benefit from a more comparative and interdisciplinary approach to knowledge.

HUMA19H3 Current Approaches to the Academic Writing Process I: A Course for Non-Native Speakers of English
An examination of the fundamentals of academic writing. Designed especially for learners of English as a second language, this course highlights the importance of relevant content, coherence, and standard documentation in academic writing. Students enrolled in HUMA19H must also be enrolled in HUMA19H. Exclusion: LCLA19H, LGGG99H. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course.
Corequisite: HUMA19H

HUMA09H3 Exploring Key Questions in Humanities
Humanities is distinguished by its critical and historical approaches to text, sound and image. This course introduces students to key questions through thought-provoking lectures, performances, intense small-group discussion, extensive writing, and regular constructive feedback. Students will experience the dynamism and diversity of Humanities while refining their critical thinking and communication skills.

HUMA11H3 Introduction to Canadian Culture and Society: A Course for Non-Native Speakers of English
A seminar course designed to introduce students who speak English as a second language to a study of Canadian culture and society through guest lectures, documentaries, non-fiction and fiction, with an emphasis on multicultural writings.
Evaluation is based on team oral presentations, research papers, and participation in class discussion. Exclusion: LGGG11H. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course.

HUMA05H3 History and Culture of the Greek World
HUMA06H3 History and Culture of the Roman World
HUMA24H3 Multiculturalism and Cultural Identities in the Greek and Roman Worlds
These courses may be used to fulfill History Program requirements. (See the Classical Studies section of this Calendar for full descriptions.)
Pre-1800 courses
Ancient World Area

GASC99H3 Law and Society in East Asia
This course may be used to fulfill History Program requirements. (See the Global Asia Studies section of this Calendar for full description.)
Africa and Asia Area
HUMA19H3 Current Approaches to the Academic Writing Process II: A Course for Non Native Speakers of English

This course covers the development of research-based writing skills, communication skills, and critical thinking through written assignments, short oral presentations, and discussion.
Exclusion: (LPGA181H), (LPGA994H). The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course, including those students who meet the prerequisites.
Prerequisite: HUMA17H or permission of the instructor

HUMA19H3 Writing Practicum: A Course for Non Native Speakers of English

This course is designed to provide small groups of students with intensive writing and speaking practice on a weekly basis.
Exclusion: (LPGA191H), (LPGA998H)

HUMB11H3 Critical Thinking, Reasoning, and Decision-Making

An introduction to locating, evaluating and analyzing information, and using that knowledge to construct and organize effective arguments and make practical decisions.

As the emphasis is on the application of critical thinking principles, this course is open to students of all backgrounds and will be relevant to a wide range of academic, professional, and other contexts.
Exclusion: (HNSB01H) if taken prior to 2007 Summer/PHL853H

HUMD19H3
HUMD20H3
HUMD273 Supervised Readings

Independent study of an advanced and intensive kind, under the direction of a faculty member. The student is expected to have some significant relationship 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 this course. The student should submit to the instructor a statement of objectives and proposed content for the course; this should be due 15 April for "P" and "Q" courses and by 1 December for "R" courses. If the proposal is approved, two faculty members from relevant disciplines will supervise and evaluate the work.
Prerequisite: Three full credits at the B-level in the Department of Humanities.

Humanities Co-operative

B.A.

Program Supervisor: S.L. Helwig (416-287-7160) Email: humanities-coop@program-supervisor@utoronto.ca
Co-op Contact: askcopto@utoronto.ca

The Co-operative Program in Humanities allows students to identify and consider relationships between academic and work environments, and combine their chosen Humanities program with work experience that draws upon the knowledge and skills acquired during their studies.

Students are required to complete a Specialist Program offered by the Department of Humanities OR two Major Programs (at least one of which is a Humanities major) and to complete the requirements of an Honours (20-credit) degree plus two work terms. For information on fees, work terms, and studying in the program, please see the Co-operative Programs section of this Calendar.

Note: For information on the Specialist (Co-operative) Program in Arts Management which operates separately from the Co-op Program in Humanities, please see the Visual and Performing Arts section of this Calendar.

Admissions

Prospective Applicants: For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post-secondary institution, see the Co-operative Programs section in this Calendar. Current U of T Scarborough students: Application procedures can be found at the Registrar's Office website at: www.utoronto.ca/subject.html. The minimum qualifications for entry are 4.0 credits from the following list of courses plus a cumulative GPA of at least 2.5:
1. Art & Culture (Specialist): [HUMA01H or VPA005H] & 1 other full credit in Visual & Performing Arts
2. ArtHistory (Major): [HUMA01H or VPA005H] & 1 full credit in Art History
3. Drama (Major): [HUMA01H or VPA005H]
4. English (Specialist & Major): ENGB03H, ENGB04H & ENGB05H
5. French (Major): FREA001H & FREA02H
6. History (Specialist & Major): 2.0 full credits from [HISAA01H, HISAA02H, HISAA04H, HISAA05H] or 1 full credit at the B-level in HIS
7. Linguistics (Major): LINAA01H & LINAA02H
8. Music & Culture (Major): [HUMA01H or VPA005H] & 1 full credit in Music
9. Philosophy (Major): 1 full credit in PHL
10. Psychology (Specialist): LINAA01H, LINAA02H, PSYA01H & PSYA02H
11. Studio (Major): [HUMA01H or VPA005H] and 1 full credit in Studio
12. Women's Studies (Major): WSTA01H & WSTA02H
Program Requirements
The program requires eight four-month sessions of study and two 12-week work placements and normally requires four to five years to complete.

Course Requirements
Students in the Co-operative Program in Humanities must complete the following:

1. All of the following 2.5 full credits:
   a) 1.5 credits in English or Languages as follows:
      [ENGBO3H Critical Thinking About Narrative
      and
      ENGB44H1 Critical Thinking About Poetry
      and
      ENGB55H1 Critical Writing about Literature]
      or
      [HUMA17H1 Current Approaches to the Academic Writing Process I: A Course for Non-Native Speakers of English
      and
      HUMA18H1 Current Approaches to the Academic Writing Process II: A Course for Non-Native Speakers of English
      and
      HUMA19H1 Writing Practicum: A Course for Non-Native Speakers of English]
   b) HUMA61H1 Exploring Key Questions in Humanities
   c) HUMB31H1 Critical Thinking, Reasoning and Decision-Making

   Where appropriate, credits in this list may also count towards the completion of a Specialist, Major or Minor Program.

2. In addition to the core credits, students must complete a Specialist Program offered by the Department of Humanities OR two Major Programs (at least one of which is in the Humanities) OR one Major Program (in the Humanities) and two Minor Programs (in any area).

   The following programs offered by the Department of Humanities may be chosen by students:

   **Specialist Programs**
   - English
   - French
   - History
   - Linguistics
   - Philosophy
   - Psycholinguistics

   **Major Programs**
   - Art History
   - Drama
   - English
   - French
   - History
   - Linguistics
   - Music and Culture
   - Philosophy
   - Studio
   - Women’s Studies

   For the requirements of these programs, please see the program descriptions elsewhere in this Calendar. Students should consult with the Program Supervisor of the Co-operative Program in Humanities as well as with their discipline Program Supervisor(s) about their course selection.

3. Elective Courses
   Students are normally required to take a certain number of elective courses as a part of their Specialist or Major program. The purpose of the elective field is to allow students some flexibility in shaping a degree to their interests and future needs. Students are encouraged to use their elective credits to take courses outside their area(s) of concentration in order to broaden their understanding of contemporary issues and their historical context and to enhance their communication skills. It is strongly recommended that Humanities Co-op students take either [VPAA10H1 "Introduction to Arts Management" and VPAA12H1 "Audience and Resource Development"] OR [MGTA03H1 and MGTA04H1 "Introduction to Management I and II"] as elective choices to allow the student to gain an important contextual understanding of workplace issues and develop expected skills for the co-op placement environment. Students are encouraged to meet with the Humanities Co-op Program Supervisor to discuss the appropriateness of each of the choices for their particular interests and needs.

   For course descriptions please see the relevant program area(s) of the Calendar.
Courses in the first year of the program
The first year of study would normally consist of the full core requirements, the required introductory courses from the Specialist, Major and/or Minor Program(s) (chosen in consultation with the Program Supervisor for that/these program(s)), and electives. Students will also normally take the Arts & Science Co-op Work Term Preparation Course in the first fall session (note that this is a non-credit course taken over and above the five credits in the first year).

Work Terms
Two work terms are an integral part of the co-op curriculum.
To be eligible for their first work term, students must be in good standing in the program (with a minimum 2.5 Cumulative Grade Point Average) and have completed at least 9.0 full credits, including at least 1.5 credits of the Humanities Co-op core courses and at least 4.5 full credits toward the requirement of the Specialist Program or the Humanities Major Program(s) in which they are enrolled. In addition, students must have completed the non-credit Arts & Science Co-op Work Term Preparation course.

To be eligible for their second work term, students must be in good standing in the program (with a minimum 2.5 Cumulative Grade Point Average) and have completed at least 12.5 full credits, including all 2.0 core credits and at least 7.0 credits toward the requirements of their Specialist program or their Major Program(s). As well, they must have received a satisfactory evaluation of their performance and work term report for their first placement.

Industrial Microbiology
(B.Sc.)

SPECIALIST (JOINT) PROGRAM IN INDUSTRIAL MICROBIOLOGY
Supervisor: Until June 30, 2009: S. Brum; From July 1, 2009: M. Terribanik  Email: industrial-microbiology@utm.utoronto.ca
This program is offered in collaboration with the School of Engineering Technology and Applied Science at Centennial College. The program may be taken in partial fulfillment of the requirement of an Honours B.Sc. degree. In addition to completing the requirements for the degree, students will qualify for a diploma from Centennial College.

Guidelines for 1st year course selection
Students intending to complete the program should include the following in their first year course selection: BGYA01H, BGYA02H, CHMA10H, CHMA11H & either [MATA20H & MATA21H] or [MATA30H & MATA35H] or [MATA30H or MATA36H] or [MATA30H & MATA35H] or [MATA30H & MATA35H] or [MATA30H & MATA35H] or [MATA30H & MATA35H].

*Students must follow one of two calculus streams:
1. Students with high school calculus may take either MATA30H & [MATA35H or MATA36H] OR MATA20H & MATA21H
2. Students without high school calculus must take MATA20H & MATA21H

Please note: MATA20H & MATA21H are not prerequisites for second year math courses.

Program Admission
Limited enrollment. Applicants must fill out a joint program supplementary application form. For application procedures, see the Joint Programs with Centennial College section of this Calendar.

Biotechnology coordinator for Centennial College Courses: Allan Richardson, Centennial College HP Science and Technology Centre, Email: archard@centennialcollege.ca

To register in courses in the Centennial College System you must communicate via email with the Biotechnology Coordinator immediately after registering for Centennial courses on ROSS. Registration for Centennial courses will take place starting in your second year of the program. It is not until you have contacted the Biotechnology Coordinator with your course selections for Centennial courses that you will be formally registered at Centennial.

Program Requirements
The program requires the completion of 15.5 full credits as follows.

Note that an additional 4.5 credits of electives are required to fulfill the degree requirements of 20.0 credits.

Courses with the designators HMC, and STB are taught at Centennial College's HP Science and Technology Centre campus.

1. 3.0 credits:
   - BGYA01H Introductory Biology: Part I
   - BGYA02H Introductory Biology: Part II
   - CHMA10H Introductory Chemistry I: Structure and Bonding
   - CHMA11H Introductory Chemistry II: Reactions and Mechanisms
[MATA20H Calculus A
and MATA21H Calculus B]
or
[MATA30H Calculus I and MATA35H Calculus II for Biological Sciences]
or
[MATA36H Calculus I and MATA36H Calculus II for Physical Sciences]

[STAB22H Statistics or PSGB35H Introduction to Scientific Computing]

2. 2.0 credits:
BGYB11H Cell Biology
BGYB11H Aspects of Cellular and Genetic Processes
CHMB21H Organic Chemistry I
CHMB24H Organic Chemistry II

3. 3.0 credits:
IMCB01H Microbiology Basics*
IMCB02H Microbial Techniques*
IMCB03H Lab Instrumentation*
IMCB04H Food Microbiology*
IMCB05H Microbiology Project*
STEIB07H Analytical Chemistry and Applications*

4. 1.5 credits:
IMCB06H Pharmaceutical Microbiology*
IMCB07H Food Chemistry*
IMCB08H Biochemistry and Applications*

5. 1.5 credits from the following list:
BGYB12H Cell and Molecular Biology Laboratory
BGYB30H Mammalian Physiology I
BGYB31H Plant Physiology
BGYB38H Ecology
BGYB35H Evolutionary Biology
BGYC10H Genetics

6. 2.0 credits:
IMCC01H Advanced Microbiology Project*
IMCC02H Microbial Genetics*
IMCC03H Biochemistry and Applications II*
IMCC04H Environmental Microbiology*

7. 2.0 credits from the following list:
ANTB38H Health and the Urban Environment
BGYC03H Environmental Toxicology
BGYD11H Seminars in Cellular Microbiology
BGYD22H Molecular Biology Laboratory: Hosts, Vectors and Cloning
BGYD23H Genomics
BGYD37H Biology of Plant Stress
BGYD99Y Directed Research in Biology
EESB16H Feeding Humans: The Cost to the Planet
EESC08H Microbial Biotechnology
H1TA07H Plagues and Peoples

*A minimum grade of 60% is required in courses marked with an asterisk in order to maintain standing in the program.

Note: Some courses in Requirement 7 above may require prerequisites that are not included in the Industrial Microbiology Program.

Note: For students who have graduated from Centennial College with a Technologist Diploma in Biotechnology/Industrial Microbiology, the following modifications apply:

- First year chemistry courses may be waived and replaced with equivalent credits in higher level chemistry, environmental science, biochemistry or biology courses.
- BGYA01H may be waived and replaced with 0.5 credit from higher level biology, environmental science or biochemistry courses. Students are advised that BGYA02H is required for higher level physiology and ecology 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 Industrial Microbiology or the Joint Program in Environmental Science and Technology.
Exclusion: IMCB01H may not be taken after or concurrently with BOY317H, IMBY373H or MGY377H.
Prerequisite: BOYA01H & BOYA02H

IMCB02H3 Microbial Techniques
Practical applications of the concepts covered in IMCB01H. Limited to students in the Joint Program in Industrial Microbiology.
Exclusion: IMCB02H may not be taken after or concurrently with BOY317H, IMBY373H or MGY377H.
Prerequisite: BOYA01H & BOYA02H
Corequisite: IMCB01H

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 Industrial Microbiology.
Prerequisite: CHMA101H & CHMA111H

IMCB04H3 Food Microbiology
An introduction through theory, lab, and field 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 Industrial Microbiology.
Prerequisite: IMCB01H

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 Industrial Microbiology.
Prerequisite: IMCB01H & IMCB02H

IMCB06H3 Pharmaceutical Microbiology
Quality control and quality assurance as they apply to the pharmaceutical industry, based on current government regulations. Students acquire knowledge of microbial production and assay methods, enumerate and identify microorganisms from commercial products, and evaluate the antimicrobial effectiveness of disinfectants, preservatives, and antibiotics. Limited to students in the Joint Program in Industrial Microbiology.
Prerequisite: IMCB01H

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 conservation. Limited to students in the Joint Program in Industrial Microbiology.
Prerequisite: CHMB42H

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 milk. Limited to students in the Joint Program in Industrial Microbiology.
Exclusion: IMCB08H may not be taken after or concurrently with BOY312H or BCID101H
Prerequisite: CHMB42H

IMCB09H3 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 Industrial Microbiology.
Prerequisite: IMCB05H & IMCB06H

IMCB10H3 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 Industrial Microbiology.
Prerequisite: IMCB01H

IMCB11H3 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/anoxic 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 Industrial Microbiology.
Exclusion: IMCB01H may not be taken after or concurrently with BOY312H or BCID101H
Prerequisite: IMCB08H

IMCB12H3 Environmental Microbiology
Fundamental microbial ecology studied in theory and applied in lab experiments. Students will characterize, assess and monitor ecosystems. Individual and group activities will include collection and testing of natural and polluted water and soil. Limited to students in the Joint Program in Industrial Microbiology.
Prerequisite: IMCB01H

STEBC07H3 Analytical Chemistry and Applications
See the Environmental Science and Technology section of this Calendar for a full course description.
International Development Studies
(B.A./B.Sc.)

Faculty List
A. Berry, B.A. (Western), M.A. (Yale), Ph.D. (Princeton), Professor Emeritus
E. C. Elph, B.A., M.Phil. (London), Ph.D. (Toronto), Professor
J. G. Fitcham, B.A., M.A., Ph.D. (Toronto), Professor
S. Clift, Ph.D. (Toronto), M.A. (McMaster), M.A., Ph.D. (Virginia), Associate Professor
A. L. Bin, B.A. (Harvard), M.A. (University of Canterbury), Sc.D. (Dohn Hopkins), Associate Professor
P.-C. Hoang, B.A. (National Chiao-tung University), M.A. (Chinese Cultural University), M.A., Ph.D. (UCLA), Associate Professor
K. Kinaston, B.A. (Toronto), M.A. (London), D.Phil. (Oxford), Assistant Professor
A. S. Price, B.Sc. (Wales), M.Sc., Ph.D. (McGill), Associate Professor
S. J. Rockel, M.A., Ph.D. (Toronto), Associate Professor
N. Ten Korsten, M.A., Ph.D. (Toronto), Associate Professor
G. Fraser, M.A. (Toronto), Ph.D. (Yale), Assistant Professor
M. Hoffmann, B.S. (Michigan Technological University), Ph.D. (George Washington University), Assistant Professor
M. Hunter, B.A., M.A. University of Natal), Ph.D. (Univ California, Berkeley), Assistant Professor
M. F. Ioane, Ph.D. (Toronto), Assistant Professor
T. Kepe, B.Agric. (Fort Hare Univ, South Africa), M.Sc. (Guelph), Ph.D. (Univ Western Cape, South Africa), Assistant Professor
K. MacDonalld, B.A., M.A., Ph.D. (Waterloo), Assistant Professor
C. Norleaf, B.A., M.A. (Lampl), Ph.D. (Geneva), Assistant Professor
L. Chan, B.A., M.A. (Toronto), Senior Lecturer

Discipline Representative: L. Chan

Undergraduate Counsellor: J. Roonmaaneeiungh Email: social-sciences-counsellor@stc.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 program 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 specific objectives of our IDS programs are: (1) provide a broad understanding of different development paths and of the complex set of international and domestic factors affecting their success and sustainability, (2) develop sensitivities to and an awareness of the reality in developing countries their cultures, their societies, their political systems, and their position within the global arena; (3) provide skills and opportunities for IDS students to share their experience and insights, to enhance awareness of development issues at the university, and in the broader community, and to promote work on development within Canada, (4) in the case of specialist co-op programs, provide practical work experience in a different culture under the supervision of a Canadian or Southern non-governmental organization (NGO), research institute, multilateral organization, or private partner; and (5) develop partnerships with individuals and organizations in the Global South working in international development.

There are five IDS programs offered: a new specialist (non-co-op), a specialist co-op, a major, a minor, and an interdisciplinary combination program in IDS and environmental studies with Limm College on the St. George campus (open only to IDS specialist co-op students and major students in environmental studies at Limm). Depending on the specific program chosen, students can graduate with a B.A. or B.Sc.

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 or a minor in IDS might consider a parallel major or minor in any one of environmental sciences, economics, geography, sociology, anthropology, and political science. While not required for graduation, specialist students (co-op or non-co-op) are also encouraged to consider fulfilling the requirements for a major program in a related discipline along side their specialist IDS program. For details about how these joint programs can be worked out, please contact the IDS Supervisor of Studies.

Guidelines for 1st year course selection

Students intending to complete any of the above IDS programs should include the following required courses in their first year selection: ECM401H, ECM402H, EESA101H and IDS802H. Other useful related (but not required) first year courses include: GGR402H, HLA410H, and POLA309H. Students should also be careful to make sure that they take the appropriate prerequisites for all courses and programs they decide to pursue.
SPECIALIST PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (B.A.)

Program Requirements
This program requires 12 full credits.

1. Fundamentals of Development Studies (3 full credits as follows)
   - ECMA04H1 Introduction to Microeconomics or ECMA04H6 Introduction to Microeconomics: A Mathematical Approach
   - ECMA15H1 Introduction to Macroeconomics or ECMA16H1 Introduction to Macroeconomics: A Mathematical Approach
   - EIES01H1 Introduction to Environmental Science
   - IDSBO1H1 International Development Studies: Political Economy
   - IDSBO2H1 International Development Studies: Development and Environment
   - IDS04H1 Project Management I

2. Health and Environmental Science (2 full credits from among the following)
   - ANTR46H1 Health and the Urban Environment
   - EIES04H1 Principles of Hydrology
   - EIES07H1 Principles of Soil Science
   - HLT16H1 Plagues and Peoples
   - HLT18H1 Health, Aging and the Life Cycle
   - HLT02H1 Issues in Child Health and Development
   - IDSBO4H1 International Health Policy Analysis
   - GCGR20H1 Geographies of Disease

3. Approaches to Development Studies (1.5 full credits from among the following)
   - DTSBO1H1 Introduction to Diaspora and Transnational Studies I
   - DTSBO2H1 Introduction to Diaspora and Transnational Studies II
   - EIES16H1 Feeding Humans - The Cost to the Planet
   - GORA02H1 The Geography of Global Processes
   - GCGR20H1 Environmental Conservation and Sustainable Development
   - NEW20Y1 Introduction to Equity Studies
   - POLA84H1 Globalization and Governance
   - POLA90H1 Politics, Corruption and Violence
   - POLB01H1 Comparative Development in International Perspective
   - POLB03H1 Comparative Development in Political Perspective

4. Methods (0.5 full credits from among the following)
   - ANTC35H1 Quantitative Methods in Anthropology
   - ANTC46H1 Fieldwork in Social and Cultural Anthropology
   - BGBY52H1 Ecology and Evolutionary Biology Laboratory
   - BGCY32H1 Ecology Field Course
   - BGCY67H1 Advanced Field Course in Ecology
   - CHMB16H1 Techniques in Analytical Chemistry
   - EMB01H1 Quantitative Methods in Economics I
   - EESC15H1 Research seminar in Environmental Science
   - EESC16H1 Field Camp I
   - GCR10H1 GIS and Empirical Reasoning
   - PSYB07H1 Data Analysis in Psychology
   - SOCBO1H1 Social Statistics
   - STAR22H1 Statistics I

5. Theory, policy, and practice (1 full credit from among the following)
   - ANTB51H1 Political Ecology
   - ANTB59H1 Varieties of Social Life
   - ANTB66H1 Culture, Politics and Globalization
   - EMB01H8 Price Theory or EMB02H2 Price Theory: A Mathematical Approach
   - EMB05H1 Macroeconomic Theory and Policy or EMB06H1 Macroeconomic Theory and Policy: A Mathematical Approach
   - EMB07H1 Economic Aspects of Public Policy
   - EMB08H1 Comparative Economic Systems
   - GCRB13H1 Social Geography
   - IDS05H1 Economics of Small Enterprise and Microcredit
   - IDS08H1 Media and Development
   - ISTB01H1 International Studies and International Communications
   - PHL00H1 Ethics and International Affairs
   - POLB06H1 Introduction to International Relations
   - POLB08H1 International Conflict and Conflict Management
6. Advanced Development (4 full credits from among the following)
   ANTIC18H Contemporary Human Evolution and Variation
   ANTH383H First Nations of North America: Social Complexity and the State
   ANTIC188H Anthropological Perspectives on Development
   ANTC188H Feminism and Anthropology
   ANTC18H Genders and Sexualities
   ANTC188H Producing People and Things: Economics and Social Life
   ANTC328H Political Anthropology
   ANTC688H Fieldwork in Social and Cultural Anthropology
   ANTC688H Medical Anthropology: Illness and Healing in Cultural Perspective
   ANTC528H Medical Anthropology II: Biological and Demographic Perspectives
   ANTC538H The Anthropology of Food: Human Needs
   ECMC508H Economic Development
   ECMC508H Development Policy
   FORC288H Conservation of Tropical and Subtropical Forests
   GGRG288H Spaces of Multicultural: Critical Mixed Race Theory
   GGRG288H Issues in Rural Development
   GGRG288H Agricultural, Environment and Development
   GGRG288H Local Geographies of.Globalization
   GGRG288H Tourism, Environment and Development
   GGRG288H Health and sexuality
   HLT282H Women and Health: Past and Present
   HUM283H Global Health and Human Rights
   ISC288H Research Design for Development Fieldwork
   ISC388H Directed Research on Canadian Institutions and International Development
   ISC288H Project Management II
   ISC188H Topics in International Development Studies
   ISC188H Issues in International Health
   PHIL688H Proctolus Studies in Philosophy
   POLC878H International Cooperation and Institutions
   POLC888H The New International Agenda
   POLC688H Development Studies: Political and Historical Perspectives
   POLC888H Latin America: Dictatorship and Democracy
   POLC888H Globalization, Gender and Development
   POLC888H International Political Economy of Trade
   POLC888H Politics and Society in the Middle East I
   POLC888H Politics and Society in the Middle East II
   POLC888H Latin America: Politics of the Dispossessed
   POLC888H Globalization, Gender and Development
   POLC988H Exploring the New International Agenda
   POLD988H Public Policy and Human Development in the Global South
   POLD988H Selected Topics on Developing Areas
   SOCC288H Comparative Ethnic and Race Relations
   SOCC388H Globalization & Translocalism
   WSTC288H Women and Development
   WSTC288H Women and Environment

SPECIALIST PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (B.SC.)

Program Requirements

This program requires 12 full credits.

1. Requirements 1 through 4 of the Specialist Program in International Development Studies (B.A.) above, 7.0 credits in total, plus the following:

2. Fundamentals (2.0 full credits from among the following)
   BGYA18H Introductory Biology: Part I
   BGYA28H Introductory Biology: Part II
   BGYR18H Plant Physiology
   BGYB38H Human Development and Anatomy
   BGYB58H Ecology
SPECIALIST (CO-OPERATIVE) PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (B.A./B.SC.)

Course Contact: incompo@utsc.utoronto.ca

The Co-operative Program in International Development Studies at University of Toronto Scarborough, is a five year undergraduate Program which aims to provide students with a critical understanding of international development issues through exposure to a variety of academic disciplines and to another culture. The Program combines interdisciplinary academic study in the social and environmental sciences with humanities with a practical work experience in a developing country. IDS students graduate with an Honours B.A. or B.Sc. with a Specialist certification in International Development Studies.

Enrollment in the Program is limited. Interviews are normally held from March until May for students who pass the initial screening. Admissions are granted on the basis of the applicants' academic performance, background in relevant subjects, language skills, experience or interest in international development studies and work, and a letter of reference from a high school teacher or university instructor. For information on admissions, fees, work placements and standing in the Program, please see the Co-operative Programs section of this Calendar.

Work Placement

This Program requires twenty courses (four years) of study and a work term of approximately eight to twelve months duration. The work term will normally begin no sooner than the end of the third year and no later than January of the fourth year of the Program.

The majority of students obtain placements with Canadian employers — Canadian development agencies (NGOs), research institutes or private sector consulting firms. The location of the placements will vary according to each student’s disciplinary and regional preferences and abilities, the availability of positions, and the practicability and safety of development work. Students who wish to carry out their placement in a developing country where there is no Canadian employer working, may be asked to finance the living allowance expenses of the placement themselves.

The IDS work placement is an integral part of the Co-op curriculum and is designed to provide students with practical hands-on experience of the development process in a Third World field setting. Students are placed as interns with Canadian or local development agencies or universities in a developing country for a 10-12 month period. Students are required to submit progress reports every 2 months and begin work on a major research project based on their work placement experience. To be eligible for placement, students must have completed 14.5 full credits including 12.0 IDS credits. These 12 must include IDS304H plus 9.5 other credits from Requirements 1 through 6 (of which at minimum 6.5 must be from Requirements 1 through 4) plus IDS303H. Students must also maintain throughout their IDS program a cumulative GPA of at least 2.5 (see the Co-operative Programs section of this
Calendar for more information on status in the program). The IDS work placement normally begins after the third year of study and requires a minimum of 2 years of residence in the Program. Extra course credit of 0.5 credit is granted for each four-month work period. Work term credits are in addition to the 20 credit degree requirement and are graded on a Credit, No Credit system.

In addition to submitting a detailed examination of their placement, students will participate in a one day placement de-briefing session with the IDS administrators.

Introduction to IDS Co-op Tutorial
Students participate in a non-credit co-op tutorial, commencing at the end of the year in which they complete 10 credits, and continuing through the following year (the pre-placement year). Presentations, group exercises and individual assignments prepare students for the placement experience. There are mandatory sessions on cross-cultural understanding, health and safety issues on placement, researching for the IDS DoY thesis, and other key topics. A weekend retreat with the fifth years (who have returned from placement) provides the opportunity for sharing of first-hand experience.

Program Admission
Prospective Applicants: For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post-secondary institution, see the Co-operative Programs section in this Calendar. Current U of T Scarborough students: Application procedures can be found at the Registrar’s Office website at www.utc.utoronto.ca/registrar. The minimum qualifications for entry are 4.0 credits and a cumulative GPA of at least 2.5. An interview is required.

Program Requirements
All students must complete Requirements 1 through 6 of the program requirements for the Specialist Program in International Development Studies (B.A./B.Sc.) as listed above, plus the following:

1. Regional language and culture (2 full credits from among the following. One of these full credits should be a language appropriate for work in developing countries. Students with a functional knowledge of an appropriate language may substitute non-language regional credits).

   ANTH348H Peoples of the Middle East: An Introduction
   ANTC200H African Cultures and Societies II: Case Studies
   ANTC558H Muslim Societies
   ENGB17H Contemporary Literature from the Caribbean
   ENGB19H Contemporary Literature from South Asia
   FREA468H Introductory French II
   FREA497H Introductory French II
   HBS358H Africa in the Nineteenth Century
   HBS359H Twentieth Century Africa
   HSC33H A History of Ethiopia
   HSC388H Topics in Asian History
   HSDS51H Southern Africa: Colonial Rule, Apartheid, and Liberation
   HSDS52H West African Societies in Transition
   LGGA30H Introductory Spanish I
   LGGA31H Introductory Spanish II
   LGGA40H Introductory Modern Standard Arabic I
   LGGA41H Introductory Modern Standard Arabic II
   LGGA50H Introductory Mandarin I
   LGGA61H Introductory Mandarin II
   LGGA62H Introductory Mandarin for Heritage Students I
   LGGA63H Introductory Mandarin for Heritage Students II
   LGGA70H Introductory Hindi I
   LGGA71H Introductory Hindi II
   LGGA74H Introductory Tamil I
   LGGA75H Introductory Tamil II
   POLC31H Latin America: Dictatorship and Democracy
   POLC39H Politics and Society in the Middle East I
   POLC90H Politics and Society in the Middle East II
   POLC99H Latin America: Politics of the Dispossessed
   POL20Y Government & Politics in Africa

2. 1.5 full courses as below:
   IDS301H Research Design for Development Fieldwork
   IDS301Y International Development Studies: Advanced Seminar
MAJOR PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (B.A., B.S.C.)

Program Requirements
Students must complete eight full credits for the Major Program in International Development Studies. In choosing courses, students must pay careful attention to the prerequisites for higher level courses.

1. Introduction to social sciences (1 full credit from among the following):
   [ECMA04H Introduction to Microeconomics or ECMA04H Introduction to Microeconomics: A Mathematical Approach]
   [ECMA05H Introduction to Macroeconomics or ECMA06H Introduction to Macroeconomics: A Mathematical Approach]
   [GGRA02H The Geography of Global Processes]
   Any one A-level course in Political Science
   SOC040H Introduction to Sociology I
   SOC042H Introduction to Sociology II

2. Introduction to Development Studies (2.0 full credits from among the following):
   [DTSR01H Introduction to Diaspora and Transnational Studies I]
   [DTSR03H Introduction to Diaspora and Transnational Studies II]
   [GGRB05H Environmental Conservation and Sustainable Development]
   [IDSB01H International Development Studies: Political Economy]
   [IDSB02H International Development Studies: Development and Environment]
   [POLB01H Comparative Development in International Perspective]
   [POLB03H Comparative Development in Political Perspective]

3. Introduction to Environmental Science (0.5 full credits)
   [EESA01H Introduction to Environmental Science]

4. Students must take four and one-half full credits with at least one full credit from two of the following groups:
   a) Social/Cultural Perspectives
      - [ANTB08H Political Ecology]
      - [ANTB19H Varieties of Social Life]
      - [ANTB20H Culture, Politics and Globalization]
      - [ANTC10H Anthropological Perspectives of Development]
      - [ANTC13H Feminism and Anthropology]
      - [ANTC15H Genders and Sexualities]
      - [ANTC19H Producing People and Things: Economics and Social Life]
      - [ANTC33H Political Anthropology]
      - [ANTC38H Medical Anthropology: Illness and Healing in Cultural Perspectives]
      - [ANTC62H Medical Anthropology: Biological and Demographic Perspectives]
      - [ANTC63H Anthropology of Food: Human Needs]
      - [ANTC64H Anthropology of Food: Consuming Passions]
      - [GGRC01H Spaces of Multiculturality: Critical Mixed Race Theory]
      - [GGRD10H Health and Sexuality]
      - [IDSC08H Media and Development]
      - [POLC01H Development Studies: Political and Historical Perspectives]
      - [POLC03H Latin America: Dictatorship and Democracy]
      - [POLC04H Globalization, Gender and Development]
      - [POLC06H Politics and Society in the Middle East I]
      - [POLC07H Politics and Society in the Middle East II]
      - [POLC08H Globalization, Gender and Development]
      - [POLC09H Latin America: The Politics of the Dispossessed]
      - [POLD01H Public Policy and Human Development in the Global]
      - [POLD02H Selected Topics on Developing Areas]
      - [SOC03H Globalization & Transnationalism]
      - [WSTC10H Women and Development]
      - [WSTC11H Applied Study in Women and Development]

   b) Policy Perspectives
      - [ANTB56H Health and the Urban Environment]
      - [ANTC05H Quantitative Methods in Anthropology]
      - [ANTC08H Fieldwork in Social and Cultural Anthropology]
      - [ECMC06H Economic Development]
      - [ECMC71H Development Policy]
      - [GGRB28H Geographies of Disease]
      - [GGRC20H Issues in Rural Development]
      - [GGRC29H Agricultural, Environment and Development]
      - [GGRC45H Local Geographies of Globalization]
      - [GGRC46H Tourism, Environment and Development]
The requirements for a B.Sc. Major in IDS are that at least four full credits carry science credit. These include EESA01H, any Anthropology options listed as a science credit in the Anthropology section of the Calendar and any course under Requirement 4(c).

MINOR PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (B.A.)

Program Requirements

1. Economics (1 full credit)
   [ECMA01H Introduction to Microeconomics or ECMA04H Introduction to Microeconomics: A Mathematical Approach]
   [ECMA02H Introduction to Macroeconomics or ECMA06H Introduction to Macroeconomics: A Mathematical Approach]

2. Development Studies (1 full credit)
   [IDSB01H International Development Studies: Political Economy]
   [IDSB02H International Development Studies: Development and Environment]

3. Environmental Science (0.5 full credit)
   [EESA01H Introduction to Environmental Science]

4. 1.5 credits from among courses listed under Requirement 4 for the Major Program, which must include 1 full credit at the C- or D-level. Although POLB90H1 & POLB91H1 are very useful complementary courses, although only 0.5 credits (one of them) can be counted as a requirement for the Minor Program.

INTERFACULTY COMBINATION PROGRAM IN INTERNATIONAL DEVELOPMENT AND ENVIRONMENTAL STUDIES

This is an Interfaculty Program for U of T Scarborough students wishing to pursue the Specialist (Co-op) Program in International Development Studies in conjunction with a Major in Environmental Policy and Practice from the Faculty of Arts and Science. Students registered in the Specialist or Major in Environmental Policy and Practice at Innis College may choose also to complete the requirements for a Major in International Development Studies offered by the University of Toronto Scarborough.

Program Admission

This is a limited enrolment Program. Students already registered in the Specialist (Co-op) Program in International Development Studies must ballot for the Interfaculty Program.

Program Requirements

Consult the University of Toronto Faculty of Arts and Science Calendar for program requirements for the Major in Environmental Policy and Practice at: www.artsandscience.utoronto.ca/ofc/calendar. Look also for Centre for Environment.

Undergraduate Student Advisor: David Powell (416-946-8100) Email: david.powell@utoronto.ca
IDSC80H3 International Development Studies: Political Economy
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.
Limited enrolment: 170
Exclusion: ECO239Y
Prerequisite: [ECMA41H1 & ECMA51H1] or [ECMA44H1 & ECMA54H1]

IDSC82H3 International Development Studies: 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.
Limited enrolment: 170
Prerequisite: EEA9A/H

IDSC84H3 International Health Policy Analysis
This course explores institutional, economic, social, epidemiological, ideological, and political forces in the field of international health. Key themes include political economy of health and development; distribution of disease; social determinants of health; financing and organization of health systems; international health agencies; role of civil society, and globalization and health.
Prerequisite: 5.0 full credits

IDSC85H3 Economics of Small Enterprise and Microcredit
Considers the role of micro- and small/middle 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.
Limited enrolment: 60
Prerequisite: [ECMA41H1 & ECMA51H1] or [ECMA44H1 & ECMA54H1]

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 pursing development work as a career. Students will prepare a research proposal as their main course assignment.
Limited enrolment: 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.
Prerequisite: 9.0 full credits in total including at least 6.0 credits satisfying Requirements 1 through 4 of the Specialist Co-op program

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.
Limited enrolment: Restricted to students in the IDS specialist and major programs.
Prerequisite: IDSB01H1 & IDSB02H

IDSC06H3 Directed Research on Canadian Institutions and International Development
Introduces students to the role of Canadian institutions (both non-government organizations and private agencies) working in international development. Students taking this course will arrange, in consultation with the instructor, to work (usually as a volunteer) in a Canadian institution. They will write a major research paper related to some aspect of their experience. The course will use and apply some of the techniques and skills taught in IDSC84H. Students must obtain consent from the Supervisor of Studies before registering for this course.
Prerequisite: IDSB01H1 & IDSB02H & permission of the instructor
Corequisite: IDSC04H recommended

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.
Limited enrolment: Limited to students in IDS Specialist and Major programs. Other students may be admitted with permission of instructor. Students in the Co-op program must take this course prior to their placement year.
Prerequisite: IDSC04H

IDSC08H3 Media and Development
Critical perspectives on the effects of traditional and "new" media on development policy and practice. The course examines the increasingly significant role the media plays in the development process, the ways in which media-generated images of development and developing countries affect development policy and the potential of "new" media for those who are marginalized from the development process.
Limited enrolment: 35
Prerequisite: IDSB01H & IDSB02H

IDSC10H3 Topics in International Development Studies
Contents to be determined by instructor.
Prerequisite: IDSB01H & IDSB02H
International Studies

Faculty List
E.W. Dowler, A.M., (Harvard), Ph.D. (London School of Economics), Professor
A. Rubino, A.B. (Allegheny), M.A., Ph.D. (Chicago), Professor
S. Solomon, B.A. (McGill), M.A., Ph.D. (Columbia), Professor
J. Teichman, B.A., M.A., Ph.D. (Toronto), Professor
P. Kingston, B.A. (Toronto), M.A. (London), D.Phil. (Oxford), Associate Professor
S.J. Rockel, M.A., Ph.D. (Toronto), Associate Professor
K. Liddle, B.A. (Oberlin), M.A. (Auburn), Ph.D. (Emory), Assistant Professor
M. Mahnen, B.A. (Dalhousie), Ph.D. (London), Assistant Professor
L. Chan, B.A., M.A. (Toronto), Senior Lecturer

Undergraduate Counsellor: J. Roncaeniewicz  Email: social-sciences-counsellor@uoft.utoronto.ca

Canada is increasingly affected by international forces, including political treaties and institutions, trade, financial flows and communications. Since Canada is a country of recent immigration, many Canadians still retain ties to their country of origin. This program helps to prepare students for working and for undertaking graduate study in an increasingly international environment.

The International Studies curriculum contains courses from political science, history, languages, economics and geography, as well as courses dealing with new media/communications technology and regional studies. The International Studies Program complements well a major in these listed disciplines. Students can opt to enrol in the Major Program in International Studies, or apply for the limited enrolment Co-op Program in International Studies.

Guidelines for 1st year course selection
Students intending to complete the Major Program in International Studies should include the following in their first year course selection: [ECMA01H1 or ECMA01H] & [ECMA05H or ECMA06H] and one or two courses that can be applied to Requirement 6 of the program.

Co-op (CO-OERATIVE) PROGRAM IN INTERNATIONAL STUDIES

Co-op Contact: zkco@co-op.utoronto.ca

This program combines academic study with work experience in the private sector, in government, in research institutions, in non-governmental organizations and possibly with international organizations, focused on international work. Work terms may be in Greater Toronto, elsewhere in Canada, and possibly abroad. The Program aims to provide a minimum of two work terms, each of 16 weeks. Students follow the same curriculum as the Major Program in International Studies, see below; however in the Co-op Program they must also enrol in a Major in another discipline. The Co-op Program is a limited enrolment Program. For information on fees, work terms, and standing in the program, please see the Co-operative Programs section of this Calendar.

Program Admission
Prospective Applicant: For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post-secondary institution, see the Co-operative Programs section in this Calendar.
www.utoronto.ca/Registrar. The minimum qualifications for entry are 4.0 credits plus a cumulative GPA of at least 2.5.
Program Requirements

Students follow the same curriculum as the Major Program in International Studies, see below, except that they must include at least one full credit in a language (other than English) or one half-credit in computer courses ([CSCA02H], [CSCA03H], [CSCA20H]) among their choices.

Work Terms

To be eligible for the first work term, students must have completed at least 10.0 full credits, including 5.0 credits as a University of Toronto Scarborough student and complete the Arts & Science Work Term Preparation course. Students are advised that being available for work terms during fall and winter may increase the variety of work available, and this in turn requires students to take courses during at least one summer session.

Courses which must be completed prior to the first placement include: ISTB01H, POLB08H, POLB011H, and either the full credit in language (other than English) or the half-credit in computer courses ([CSCA02H], [CSCA03H], [CSCA20H] or [VPAB00H])

MAJOR PROGRAM IN INTERNATIONAL STUDIES

Program Requirements

The program requires the completion of 7 full credits including:

1. ECMA01H Introduction to Microeconomics
   or
   ECMA04H Introduction to Microeconomics: A Mathematical Approach
2. ECMA05H Introduction to Macroeconomics
   or
   ECMA06H Introduction to Macroeconomics: A Mathematical Approach
3. ISTB01H International Studies and International Communications
4. POLB08H Introduction to International Relations
   or
   POLB11H International Conflict and Conflict Management
5. At least 1 full credit in any language (other than English)
   or
   At least 1 full credit from the following list:
   (CSCA02H) The Why and How of Computing
   CSCA03H Introduction to Computer Programming
   CSCA06H Computer Science for the Sciences
   HSA01H The Twentieth Century World I
   HSA02H The Twentieth Century World II
   IDSBO1H International Development Studies: Political Economy
6. At least 3.5 full credits from one of the following two streams (which must include at least one full credit at the C-level):

   Stream 1: International Culture and Communication Stream
   1 additional full credit in a language other than English (up to 2 full credits in language can be counted for the Program)
   1 full credit in regional courses (to be approved by Supervisor; suitable courses exist in many Humanities and Social Science disciplines. Regional courses are courses focusing on a particular geographic region of the world, such as Latin America, Africa, or South Asia.)
   IDSBO1H Directed Research on Canadian Institutions and International Development
   HUMC04H Media and Popular Culture in East Asia
   ISTD01H Readings in International Studies
   MDSA01H Introduction to New Media in Humanities and Social Sciences
   MDSB02H Design in Visual Culture
   POLC01H The New International Agenda
   POLD01H Exploring the New International Agenda
   SOCSS01H Sociology of Culture
   SOCC44H* Media and Society

   Stream 2: International Political Economy
   ECMC61H* International Economics: Finance
   ECMC62H* International Economics: Trade
   ECMG61H* Economic Development
   ECMG75H* Development Policy
   GGRC29H Problems in Modern Agricultural Land Use
   GGRC45H Local Geographies of Globalization
   GGRC46H Tourism, Environment and Development
   IDSBO4H International Health Policy Analysis
Intersections, Exchanges, Encounters in the Humanities

Faculty List
S. Lamb, M.A., Ph.D. (Toronto), Associate Professor
D.E. Bender, M.A., Ph.D. (New York), Assistant Professor
K.R. Larson, M.Phil., M.St. (Oxford), Ph.D. (Toronto), Assistant Professor
K.A. McLennan, M.A. (McMaster), Ph.D. (McGill), Assistant Professor
E. Rothman, M.A. (Tel Aviv), Ph.D. (Michigan), Assistant Professor
M. Rubright, A.B. (Vanier), M.A. (McGill-Columbia), Ph.D. (Michigan), Assistant Professor

Program Co-Director: D. Bender & S. Lamb Email: iee-program-supervisor@utsc.utoronto.ca

"Intersections, Exchanges, Encounters in the Humanities" (IEE) is a selective, competitive admissions program that familiarizes students with current, cutting-edge research from across the humanities. IEE courses focus on where different traditions of inquiry intersect, and are taught by professors working in areas such as music, literature, history, and beyond whose research spans across traditional boundaries. By taking courses with faculty with diverse approaches and interests, students will be able to explore connections between subject areas they otherwise could not. Because IEE is designed as an advanced companion major, students pursuing IEE will gain broader contextual insights into their companion program. The experiential component of IEE will help students understand how the complexity of humanities thought can be explored both inside and outside of the university.

IEE graduates will be superbly equipped for a wide range of future scholarly and professional endeavours. Since students have mastered a variety of methodological and research approaches and encountered a rich breadth of subject areas, they will be uniquely qualified for graduate school, teaching college, law school, or indeed any undertaking requiring flexibility of mind, creativity of engagement, and the ability to think through and analyze diverse information. IEE's approach to humanities thought, together with its emphasis on language competency and experiential learning, will also provide an excellent foundation for careers in areas such as government, social activism, and community work.

IEE students will be expected to complete both the requirements of the IEE major as well those of a major in an established program, usually in the humanities. As a comparison major and through sharing conversations with faculty and fellow students from different disciplines, IEE offers students a unique opportunity to expand their practical and intellectual training across multiple humanistic fields.

Guidelines for first-year course selection
Students interested in applying to IEE at the end of their first year are strongly encouraged to take HUMA401H (Exploring Key Questions in Humanities) in their first year.
MAJOR PROGRAM IN INTERSECTIONS, EXCHANGES, ENCOUNTERS IN THE HUMANITIES

Program Co-Directors: D. Bender & S. Lamb. Email: see-program-supervisor@utsc.utoronto.ca

Program Admission
This is a highly selective program. Typically, students will be required to apply for IEE at the end of the second term of their first year. Applicant procedures can be found at the Registrar’s Office website: www.utsc.utoronto.ca/registrar. Minimum requirements for entry include a commitment to completing a companion program of study and proven university-level performance. Applications must include:

* A letter of recommendation from a faculty member or TA who is familiar with the applicant’s university-level academic work.
* A short written statement of interest of no more than 500 words
* A writing sample (such as an essay written for a university-level class)

IEE faculty will conduct interviews with eligible candidates.

Companion program
Because of the selective and multi-disciplinary nature of this program, students will be expected to complete a major or specialist in a complementary program. Such programs would usually be based in the Humanities.

Program Requirements
Students must complete 8.0 full credits. The specific program requirements are as follows:

1. Core Curriculum
   Students are required to complete for a total of 1.5 credits:
   IEEB91H Human, Inhuman, and Non-Human
   IEEB92H Senses, Sensibility, Sensuality
   IEEB93H Tone, Story, Perspective

2. Themes, Perspectives and Exchanges
   Students may choose from the following courses and must complete at least 3.5 credits:
   Note: Many C-level IEE courses are offered as I & II. This is not meant to suggest a chronology, and students are welcome to take both to gain a breadth of perspective on key topics, which will vary with instructor.
   IEEC03H Theories and Methods in the Study of Society and Culture
   IEEC06H Defining the Human I
   IEEC06H Defining the Human II
   IEEC11H Perspectives on Language and Culture I
   IEEC12H Perspectives on Language and Culture II
   IEEC21H Perspectives on the Globalized and the Transnational I
   IEEC22H Perspectives on the Globalized and the Transnational II
   IEEC31H Perspectives on Science and Humanities I
   IEEC32H Perspectives on Science and Humanities II
   IEEC41H Themes in Translation and Cultural Mediation I
   IEEC42H Themes in Translation and Cultural Mediation II
   IEEC51H Themes in Travel and Encounter I
   IEEC52H Themes in Travel and Encounter II
   IEEC61H Themes in Consumption and Material Culture I
   IEEC62H Themes in Consumption and Material Culture II
   IEEC71H Exchanges in Performance and the Arts I
   IEEC72H Exchanges in Performance and the Arts II
   IEEC81H Exchanges in Music and Media I
   IEEC82H Exchanges in Music and Media II

3. Advanced Seminars in IEE
   All IEE students must fulfill at least 1.0 credits at the D-level. They must complete the capstone seminar, normally in the final year:
   IEEED01H Capstone Seminar in Intersections, Exchanges, Encounters in the Humanities

   Students must also pursue a 5 experiential learning credit. The experiential learning credit will be fulfilled in an IEE seminar and may include: an internship, community fieldwork, or applied arts. Some students may fulfill this requirement with a term abroad. Most students, however, will enrol in:
   IEEED02H Experiential Learning Seminar in Intersections, Exchanges, Encounters in the Humanities

4. Language Requirements
   Students must complete 2.0 credits in a non-English language. Please see Language (LGG) or French (FRF) listings in this calendar for UTSC offerings.
IEEB01H3 Human, Inhuman, and Non-Human
This course investigates how definitions of human and non-human have been expressed and have changed over time. What are the represenations of defining someone or something as human or inhuman? Case studies may include slavery, genocide, animals, monsters, artistic expression, cybemetics, or disability. Required course for all IEE majors.
Prerequisite: At least 4.0 FCE & restricted to IEE major students

IEEB02H3 Senses, Sensibility, Sensuality
This course examines connections between the physical and the subjective by focusing on how sensual responses acquire and shape meaning. The course investigates the body, sexuality, visuality, taste, purity/pollution, and allure. Case studies may include food, music, consumption and material culture, theatricality, or cinema. Required course for all IEE majors.
Prerequisite: At least 4.0 FCE & restricted to IEE major students

IEEB03H3 Time, Story, Perspective
This course explores key questions about the stories we tell and how we tell them. It examines perceptions of time and space, chronology and geography, truth and myth, narrative genres, and performance. Case studies may include: translation, travel, epic, song, theatre, and mapping. Required course for all IEE majors.
Prerequisite: At least 4.0 FCE & restricted to IEE major students

IEEC01H3 Theories and Methods in the Study of Society and Culture
This course introduces students to key themes, texts, and critical methodologies in the study of society and culture, such as phenomenology, ethnography, deconstruction, Marxist theory, feminism, semiotics, queer theory, post modernism and post colonialism. The course will focus on methods employed by scholars across the humanities.
Prerequisite: At least 4.0 credits
Corequisite: [IEEB01H1 or IEEB02H1 or IEEB03H1] & restricted to IEE major students

IEEC02H3 Defining the Human I
This course examines various historical and contemporary struggles over the definition of what it means to be human. How are humans distinct from other animals? How have ideas of the self and other been shaped by notions of what it means to be human? Topics will vary with instructor.
Exclusion: HIS03H1
Prerequisite: At least 4.0 credits
Corequisite: For IEE students, at least 2 of IEEB01H1, IEEB02H1 or IEEB03H1.
For non-IEE students, at least 1.0 credits in the Humanities at the B, C, or D-level.

IEEC03H3 Defining the Human II
This course examines various historical and contemporary struggles over the definition of what it means to be human. How are humans distinct from other animals? How have ideas of the self and other been shaped by notions of what it means to be human? Topics will vary with instructor.
Prerequisite: At least 4.0 credits
Corequisite: For IEE students, at least 2 of IEEB01H1, IEEB02H1 or IEEB03H1. For non-IEE students, at least 1.0 credits in the Humanities at the B, C, or D-level.

IEEC11H3 Perspectives on Languages and Culture I
How does language shape the way groups and individuals understand art, literature, music, conversation, and everyday action? Combining readings from a variety of fields this course explores the sociocultural practices which language helps to structure. Topics will vary with instructor.
Prerequisite: At least 4.0 credits
Corequisite: For IEE students, at least 2 of IEEB01H1, IEEB02H1 or IEEB03H1. For non-IEE students, at least 1.0 credits in the Humanities at the B, C, or D-level.

IEEC12H3 Perspectives on Languages and Culture II
How does language shape the way groups and individuals understand art, literature, music, conversation, and everyday action? Combining readings from a variety of fields this course explores the sociocultural practices which language helps to structure. Topics will vary with instructor.
Prerequisite: At least 4.0 credits
Corequisite: For IEE students, at least 2 of IEEB01H1, IEEB02H1 or IEEB03H1. For non-IEE students, at least 1.0 credits in the Humanities at the B, C, or D-level.

IEEC21H3 Perspectives on the Globalized and the Transnational I
What does globalization mean? How new is it? And how can we study it by looking at phenomena such as consumption, mass media, transnational migration, and representations of home and abroad? This course will explore these issues through selected case studies. Topics will vary with instructor.
Prerequisite: At least 4.0 credits
Corequisite: For IEE students, at least 2 of IEEB01H1, IEEB02H1 or IEEB03H1. For non-IEE students, at least 1.0 credits in the Humanities at the B, C, or D-level.

IEEC22H3 Perspectives on the Globalized and the Transnational II
What does globalization mean? How new is it? And how can we study it by looking at phenomena such as consumption, mass media, transnational migration, and representations of home and abroad? This course will explore these issues through selected case studies. Topics will vary with instructor.
Prerequisite: At least 4.0 credits
Corequisite: For IEE students, at least 2 of IEEB01H1, IEEB02H1 or IEEB03H1. For non-IEE students, at least 1.0 credits in the Humanities at the B, C, or D-level.
IEEC3H3 Perspectives on Science and Humanities I
This course examines the meanings of science and the activities of scientists through selected case studies. We will consider changing understandings of the environment, how different societies have classified natural phenomena, and how changing definitions of "nature" itself shape — and are shaped by — human relations. Topics vary with instructor.
Prerequisite: At least 4.0 credits
Corequisites: For IEEB01H, IEEB02H or IEEB03H. For non-IEE students, at least 1.0 credits in the Humanities at the B, C, or D-level.

IEEC3H3 Perspectives on Science and Humanities II
This course examines the meanings of science and the activities of scientists through selected case studies. We will consider changing understandings of the environment, how different societies have classified natural phenomena, and how changing definitions of "nature" itself shape — and are shaped by — human relations. Topics vary with instructor.
Prerequisite: At least 4.0 credits
Corequisites: For IEE students, at least 2 of IEEB01H, IEEB02H or IEEB03H. For non-IEE students, at least 1.0 credits in the Humanities at the B, C, or D-level.

IEEC4H3 Themes in Translation and Cultural Mediation I
This course examines how individuals and groups engage in translation, conversion, and the representation of cultural difference. Through case studies from across time and space it explores how and why boundaries between religions, cultures, languages, and societies have been drawn and re-drawn. Topics will vary with instructor. Exclusion: HISD03H
Prerequisite: At least 4.0 credits
Corequisites: For IEE students, at least 2 of IEEB01H, IEEB02H or IEEB03H. For non-IEE students, at least 1.0 credits in the Humanities at the B, C, or D level.

IEEC4H3 Themes in Translation and Cultural Mediation II
This course examines how individuals and groups engage in translation, conversion, and the representation of cultural difference. Through case studies from across time and space it explores how and why boundaries between religions, cultures, languages, and societies have been drawn and re-drawn. Topics will vary with instructor. Exclusion: ENGC5H
Prerequisite: At least 4.0 credits
Corequisites: For IEE students, at least 2 of IEEB01H, IEEB02H or IEEB03H. For non-IEE students, at least 1.0 credits in the Humanities at the B, C, or D-level.

IEEC5H3 Themes in Travel and Encounter I
This course investigates the interrelationship between travel, encounter, and the arts. Topics may include women travelers, traveling by marginalized groups such as servants and slaves; exploration; imperial or colonial travel; travel literature; horses; pilgrimage and crusading; fictional travel; the history of geography and ethnography. Topics will vary with instructor. Exclusion: ENGC5H
Prerequisite: At least 4.0 credits
Corequisites: For IEE students, at least 2 of IEEB01H, IEEB02H or IEEB03H. For non-IEE students, at least 1.0 credits in the Humanities at the B, C, or D-level.

IEEC5H3 Themes in Travel and Encounter II
This course investigates the interrelationship between travel, encounter, and the arts. Topics may include women travelers, traveling by marginalized groups such as servants and slaves; exploration; imperial or colonial travel; travel literature; horses; pilgrimage and crusading; fictional travel; the history of geography and ethnography. Topics will vary with instructor. Exclusion: HISD06H
Prerequisite: At least 4.0 credits
Corequisites: For IEE students, at least 2 of IEEB01H, IEEB02H or IEEB03H. For non-IEE students, at least 1.0 credits in the Humanities at the B, C, or D-level.

IEEC6H3 Themes in Consumption and Material Culture I
This course investigates how humans relate to objects, how humans relate to other humans through objects, and how these relationships change historically and cross-culturally. Themes may include fashion, food, youth cultures, and commodification. Topics will vary with instructor. Prerequisite: At least 4.0 credits
Corequisites: For IEE students, at least 2 of IEEB01H, IEEB02H or IEEB03H. For non-IEE students, at least 1.0 credits in the Humanities at the B, C, or D-level.

IEEC6H3 Themes in Consumption and Material Culture II
This course investigates how humans relate to objects, how humans relate to other humans through objects, and how these relationships change historically and cross-culturally. Themes may include fashion, food, youth cultures, and commodification. Topics will vary with instructor. Prerequisite: At least 4.0 credits
Corequisites: For IEE students, at least 2 of IEEB01H, IEEB02H or IEEB03H. For non-IEE students, at least 1.0 credits in the Humanities at the B, C, or D-level.

IEEC7H3 Exchanges in Performance and the Arts I
This course investigates the interrelationship between various art forms from the perspective of performativity. Topics may include the social role of performance, the body in performance, performing identities, virtual performance, and the impact of technology on the performing body. Topics will vary with instructor. Prerequisite: At least 4.0 credits
Corequisites: For IEE students, at least 2 of IEEB01H, IEEB02H or IEEB03H. For non-IEE students, at least 1.0 credits in the Humanities at the B, C, or D-level.
IEEC72H3: Exchanges in Performance and the Arts

This course investigates the interrelationship between various art forms from the perspective of performance. Topics may include the social roles of performance, crossing the senses, the body in performance, performing identities, and the impact of technology on performance and performance outside the arts. Topics will vary with instructor.

Prerequisite: At least 4.0 credits
Corequisite: For IEE students, at least 2 of IEEB01H, IEEB02H or IEEB03H. For non-IEE students, at least 1.0 credits in the Humanities at the B, C, or D-level.

IEEC81H3: Exchanges in Music and Media I

This course investigates the interrelationship between music and various historical and contemporary media. Topics may include the exploration of questions surrounding ideology, identity, reception, technology and the relationship of music to other media including print culture, radio, television, film, video games and cyberspace. Topics will vary with instructor.

Exclusion: VMCM84H3

Prerequisite: At least 4.0 credits
Corequisite: For IEE students, at least 2 of IEEB01H, IEEB02H or IEEB03H. For non-IEE students, at least 1.0 credits in the Humanities at the B, C, or D-level.

IEEC82H3: Exchanges in Music and Media II

This course investigates the interrelationship between music and various historical and contemporary media. Topics may include the exploration of questions surrounding ideology, identity, reception, technology and the relationship of music to other media including print culture, radio, television, film, video games and cyberspace. Topics will vary with instructor.

Exclusion: VMCM84H3

Prerequisite: At least 4.0 credits
Corequisite: For IEE students, at least 2 of IEEB01H, IEEB02H or IEEB03H. For non-IEE students, at least 1.0 credits in the Humanities at the B, C, or D-level.

JOURNALISM

Specialist (Joint) Program in Journalism

Program Supervisor: K. McCrindle (416-287-7138) Email: journalism@stac.utoronto.ca

This program may be taken in fulfillment of the requirements of a four-year (80-credit) Honours B.A. Degree and requires four to five years to complete. In addition to completing the requirements for the degree, students who intend to qualify for a diploma from Centennial College must undertake one additional semester in a field placement and complete a short non-credit course on journalism career management at Centennial.

Courses are taught at both U of T Scarborough and at Centennial College. Centennial courses are taken in the third and fourth years of the program. Students must be enrolled on a full-time basis while at Centennial College. This may include evenings and weekends.

Students must maintain a Cumulative Grade Point Average (CGPA) of 2.0 or higher to remain in the program.

Guidelines for 1st year course selection

Students intending to complete the program should include the following in their first year course selection: MD5A21H & MD5A22H & HUMA01H & other courses of interest. In addition, MD5A01H & MD5A02H are recommended. (Note: The major or minors are no longer required.)

Program Admission

Limited enrollment. Applicants must fill out a joint program application form, which is available online at http://www.stac.utoronto.ca/jointprograms.
Program Requirements

a) MDSA21H & MDSA22H Introduction to Journalism I & II
HUMA40H1 Exploring Key Questions in Humanities
b) MDSB20H1 Language and Media
MDSB24H1 Journalism in the Age of New Media
MDSB25H1 Media Ownership and Journalism
MDSB26H1 Covering Immigration
MDSB27H1 Critical Journalism
MDSB39H1 Fundamentals of Journalistic Writing
MDSO20H1 Topics in Media and Politics
HUMB11H1 Critical Thinking, Reasoning and Decision-Making
c) One full credit from MDS courses at the C- or D-level, of which at least 0.5 credits is at the D-level. This requirement is in addition to MDSCE6H listed in b. above.
d) Journalism Group I – students will be eligible to enrol in these courses after successfully completing at least 10 full credits at the University of Toronto Scarborough (or permission of the Program Supervisor), including MDSA21H, MDSA22H, MDSB44H, MDSB26H, MDSB27H, MDSB39H, HUMA40H1, HUMB11H. This group of courses should usually be taken concurrently.
JOUA60H1 Journalism Law & Ethics*
JOUB11H1 News Reporting*
JOUB14H1 Page Design*
JOUB18H1 Imaging: Journalism*
e) Journalism Group II – students will be eligible to enrol in these courses after successfully completing Group I above.
JOUB20H1 Magazine Journalism*
JOUB25H1 Advanced Interviewing Techniques*
JOUB39H1 Journalism Copy Editing*
JOUB48H1 Newspaper Laboratory 1*
JOUB17H1 News for the Electronic Media 1*
JOUB18H1 News for the Electronic Media 2*
f) Journalism Group III – students will be eligible to enrol in these courses after successfully completing Group II.
JOUC13H1 Beat Reporting*
JOUC16H1 Newspaper Laboratory 2*
JOUC17H1 News for the Electronic Media 2*
* A minimum grade of C- is required in these particular courses to pass and maintain standing in the program.
Completion of 15-week job placement and Career Management course are also required to qualify for the diploma from Centennial College. See Journalism website or Program Supervisor for more information.

Recommendation: A minor program in another discipline is recommended but not required.

JOUA60H1 Journalism Law and Ethics
An examination of the key legal and ethical issues facing Canadian journalists, with an emphasis on the practical. This course is taught at the HP Science and Technology Centre (Centennial College) and is open only to students in the Joint Program in Journalism. Prerequisite: 10 credits including JOUA60H1, JOUA20H1, JOUB14H1, JOUB20K1, HUMB11H1.
Corequisite: JOUB11H1 & JOUB14H1 & JOUB18H1

JOUB25H1 Magazine Journalism
An introduction to developing and selling quality magazine stories. Students learn techniques for both successful freelancing and magazine staff work. Students learn the importance of finding market niches, winning assignments, and carrying them out professionally. This course is taught at the HP Science and Technology Centre (Centennial College) and is open only to students in the Joint Program in Journalism. Prerequisite: 12 credits, including JOUA60H1 & JOUB11H1 & JOUB14H1 & JOUB18H1.
Corequisite: JOUB20H1 & JOUB20K1 & JOUB48H1 & JOUB17H1

JOUB25H1 Advanced Interviewing Techniques
An advanced course designed to improve skills for interviewers in journalism. The course involves analyzing taped interviews, role-playing, critiquing student interviews, and research. The course teaches people skills as well as interviewing skills. This course is taught at the HP Science and Technology Centre (Centennial College) and is open only to students in the Joint Program in Journalism. Prerequisite: 12 credits, including JOUA60H1 & JOUB11H1 & JOUB14H1 & JOUB18H1.
Corequisite: JOUB39H1 & JOUB48H1 & JOUB17H1

JOUB25H1 Copy Editing
A practical course in the skills needed to prepare news copy for publication. Emphasis is on making mechanical, factual and contextual correction; improving story leads and organization; and forging positive working relationships with reporters. Each participant is responsible for producing publishable copy, alone and as part of a team. This course is taught at the HP Science and Technology Centre (Centennial College) and is open only to students in the Joint Program in Journalism. Prerequisite: 12 credits, including JOUA60H1 & JOUB31H1 & JOUB14H1 & JOUB18H1.
Corequisite: JOUB18H1 & JOUB25H1 & JOUB48H1 & JOUB17H1
JOUB10H3 Newspaper Laboratory I
Practical journalism experience writing for "The Observer", a community newspaper published six times per semester for readers in East York and produced entirely by the Journalism program. Class time is for staff meetings, setting agendas, assignments and deadlines. Students work independently on stories, including research, writing, photography, and electronic production. This is an intensive course which requires a large time commitment that may include evenings and weekends.
This course is taught at the HP Science and Technology Centre (Centennial College) and is open only to students in the Joint Program in Journalism.
Prerequisite: 12 credits, including JOUA01H, JOUB11H & JOUB12H & JOUB14H.
Corequisite: JOUB09H & JOUB10H & JOUB11H & JOUB17H

JOUB11H3 News Reporting
Practice in journalistic reporting and writing, starting with a simple news story and proceeding to feature and profile writing and coverage of municipal affairs. Class discussions focus on critical analysis of professional publications. Guest professional journalists discuss their experience and current issues in journalism.
This course is taught at the HP Science and Technology Centre (Centennial College) and is open only to students in the Joint Program in Journalism.
Prerequisite: 10 credits including JOUA01H, JOUAB2H, JOUB01H, JOUB02H, HUMB11H.
Corequisite: JOUA06H & JOUB11H & JOUB19H

JOUB14H3 Page Design
An introduction to layout and desktop publishing. The course develops the skills needed to produce good-looking newspaper pages that reflect sound news judgment. Students experiment with a variety of layouts, including broadsheet and tabloid formats, in preparation for experience on the in-house newspaper, "The Observer."
This course is taught at the HP Science and Technology Centre (Centennial College) and is open only to students in the Joint Program in Journalism.
Prerequisite: 10 credits including JOUA01H, JOUA02H, JOUB01H, JOUB02H, HUMB11H.
Corequisite: JOUA06H & JOUB11H & JOUB19H

JOUB17H3 News for the Electronic Media 1
An introduction to the production of effective radio news. New journalists learn to gather, write, and present radio news that communicates information clearly and stylishly. Emphasis is on reporting, obtaining relevant sound, writing in broadcast style, and production. Participants present radio newscasts, independently and in teams.
This course is taught at the Centre for Creative Communications (Centennial College) and is open only to students in the Joint Program in Journalism.
Prerequisite: 12 credits, including JOUA06H & JOUB11H & JOUB14H & JOUB19H.
Corequisite: JOUB03H & JOUB05H & JOUB09H & JOUB12H

JOUB19H2 Imaging: Journalism
An introduction to the basic concepts of photography and a deeper examination of the principles of photography.
Students create photo stories using a range of equipment (portable, battery-operated flash equipment, digital cameras, etc.) and learn how to edit images for publication, either in print or in Web form.
This course is taught at the HP Science and Technology Centre (Centennial College) and is open only to students in the Joint Program in Journalism.
Prerequisite: 10 credits, including JOUA01H, JOUA02H, JOUB01H, JOUB02H, HUMB11H.
Corequisite: JOUA06H & JOUB11H & JOUB14H

JOUC13H3 Beat Reporting
An advanced course in covering a specific "beat. Students work in teams to select a topic, conduct preliminary research, and prepare a proposal. Students then research and write a series of five stories each on their beat for publication in tabloid newspaper or magazine format. This is an intensive course which requires a large time commitment that may include evenings and weekends.
This course is taught at the HP Science and Technology Centre (Centennial College) and is open only to students in the Joint Program in Journalism.
Prerequisite: 14.5 credits, including JOUB03H, JOUB05H, JOUB09H, JOUB10H, JOUB12H.
Corequisite: JOUC16Y & JOUC17H

JOUC16Y3 Newspaper Laboratory 2
Practice using techniques learned in other program courses in order to produce content for "The Observer."
As in JOUB10H, students produce six issues per semester, but they play a more senior role and devote more time. Students attend staff meetings during class time, and research and write stories outside class.
This is an intensive course which requires a large time commitment that may include evenings and weekends.
This course is taught at the HP Science and Technology Centre (Centennial College) and is open only to students in the Joint Program in Journalism.
Prerequisite: 14.5 credits, including JOUB03H & JOUB05H, & JOUB09H & JOUB10H & JOUB12H.
Corequisite: JOUC13H & JOUC17H

JOUC17H3 News for the Electronic Media 2
An introduction to the production of television news wrap-around report. Students learn how to shoot, write, and edit TV news stories that communicate information clearly and stylishly. Students produce television news stories independently and in teams.
This course is taught at the Centre for Creative Communications (Centennial College) and is open only to students in the Joint Program in Journalism.
Prerequisite: 14.5 credits, including JOUB03H & JOUB05H & JOUB09H & JOUB10H & JOUB12H.
Corequisite: JOUC13H & JOUC16Y

MDSA21H3 Introduction to Journalism I
MDSA22H3 Introduction to Journalism II
MDSB02H3 Language and Media
MDSB24H3 Journalism in the Age of New Media
MDSB25H3 Media Ownership and Journalism
MDSB26H3 Covering Immigration
MDSB27H3 Critical Journalism
MDSB29H3 Fundamentals of Journalistic Writing
MDSBC2H3 Topics in Media and Politics
See the Media Studies section of this Calendar for full course descriptions.
Languages

Faculty List
P.R. Leon, M.A., Ph.D. (Cornell), Professor Emeritus
C.V. Penomareff, M.A., Ph.D. (Toronto), Professor Emeritus
R. Skyrme, B.A., M.Litt. (Bristol), M.A., Ph.D. (Michigan), Professor Emeritus
H. Wilmann, M.A., Ph.D. (Mass.), Professor Emeritus
R. Helms-Park, M.A., Ph.D. (Toronto), Associate Professor
X.Y. Wu, M.A., Ph.D. (Toronto), Senior Lecturer
T. Al-Kasey, B.A. (Slippery Rock), M.A., Ph.D. (Massachusetts), Lecturer
I. Dyson, B.A., M.A., Ph.D. (Toronto), Lecturer
N. Hermes, B.A. (Toronto), M.A. (Northern Iowa), Lecturer
E. Mills, B.Sc. (London), B.A. (Oxford), Lecturer
N. Sujil, B.A., M.A., M. Phil. (Istanbul), Lecturer
S.L. Wang, B.A., M.A., Ph.D (Hawaii), Lecturer

The course list includes language courses in Arabic, Hindi-Urdu, Latin, Mandarin Chinese, Sanskrit, Spanish, and Tamil. Registration in all courses with the prefix LGG is subject to the approval of the instructor. Students will be assessed at the beginning of the course in a manner to be determined by the instructor. Students whose level of proficiency in the language is inappropriate for the level of the course will not be approved for enrollment. 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 Co-ordinator of Language Studies, Tamara Al-Kasey at language-coordinator@utsc.utoronto.ca or, where appropriate, the instructors of these courses.

Language Citation
U of T Scarborough offers a growing range of language opportunities and, as students seek international study, work opportunities and post-graduate study, they may be assisted by a rotation of language proficiency. See the Language Citation section of the Calendar for more information about this notation.

The Languages Study Guide is available at: http://www.utsc.utoronto.ca/len/guide/LangGuide/index.htm

LGGA30H3 Introductory Spanish I
An elementary course for students with no knowledge of Spanish. The course develops listening, speaking, reading, and writing skills through culturally-based materials. Oral and written materials are enhanced by audio-visual and computer-based activities.

Limited enrolment: 30
Exclusion: Grade 12 Spanish, 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.

LGGA31H3 Introductory Spanish II
A continuation of LGGA30H1.

Limited enrolment: 30
Exclusion: Grade 12 Spanish, 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, including those students who meet the prerequisites.
Prerequisite: LGGA30H or permission of instructor

LGGA40H3 Introductory Modern Standard Arabic I
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.

Limited enrolment: 30
Exclusion: ARAB212Y (NMC210Y), NML212Y, 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. Note: students whose home language is a variety of spoken Arabic should enrol in LGGB45H.

LGGA41H3 Introductory Modern Standard Arabic II
A continuation of LGGA40H1. This course will build on the skills learned in LGGA40H1 and will provide further practice in reading and writing in the Arabic script.

Limited enrolment: 30
Exclusion: ARAB212Y (NMC210Y), NML212Y, 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, including those students who meet the prerequisites.
Prerequisite: LGGA40H or permission of instructor
LGG458H1 Introductory Latin I
An elementary course for students with no knowledge of classical Latin. An introduction to the structure of Latin, with some attention to the place of Latin in the Indo-European language family and its cognate and derivative relationships.
Limited enrolment: 30
Exclusion: LAT100Y or higher, LAT102H, LAT150H. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course.

LGG458H1 Introductory Latin II
A continuation of LGG458H1, with some reading of elementary texts.
Limited enrolment: 30
Exclusion: LAT100Y or higher, LAT102H, LAT151H. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course, including those students who meet the prerequisite.
Prerequisite: LGG458H1 or permission of instructor

LGG459H1 Introductory Sanskrit I
An Introduction to Sanskrit, the classical language of ancient India. Sanskrit is also the language of traditional Hinduism and the basis of early Buddhist texts. Students are introduced to the structural properties of Sanskrit and the devanagari script, used in various North Indian languages such as Hindi, Marathi, and Gujarati.
Limited enrolment: 30
Exclusion: EAS282Y, NEW210Y, RLG260Y, SAN291Y. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course.

LGG459H1 Introductory Sanskrit II
This course is a continuation of Sanskrit I. Students should gain enough familiarity with the script and the structure of the language to be able to read short texts in Sanskrit.
Limited enrolment: 30
Exclusion: EAS282Y, NEW210Y, RLG260Y, SAN291Y. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course, including those students who meet the prerequisite.
Prerequisite: LGG458H1 or permission of instructor.

LGG460H1 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).
Limited enrolment: 30
Exclusion: All EAS, CHI & LGG Chinese language courses. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course.

LGG460H1 Introductory Mandarin II
A continuation of LGG460H1. This course will build on the skills learned in LGG460H1. Limited enrolment: 30
Exclusion: All EAS, CHI & LGG Chinese courses except LGG460H1 or (LGG460H1). The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course, including those students who meet the prerequisite.
Prerequisite: LGG458H1 or (LGG458H1) or permission of instructor.

LGG462H1 Introductory Mandarin for Heritage Students I
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).
Limited enrolment: 30
Exclusion: All EAS, CHI & LGG Chinese language courses. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course.

LGG463H1 Introductory Mandarin for Heritage Students II
A continuation of LGG462H1.
Limited enrolment: 30
Exclusion: All EAS, CHI & LGG Chinese language courses except LGG462H1. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course, including those students who meet the prerequisite.
Prerequisite: LGG462H1 or permission of instructor.

LGG470H1 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.
Limited enrolment: 30
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 LGG470H1 or LGG471H.

LGG471H1 Introductory Hindi II
A continuation of LGG470H1.
Limited enrolment: 30
Exclusion: HIN212Y, NEW212Y. Knowledge of Hindi beyond materials covered in LGG470H1. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course, including those students who meet the prerequisite.
Prerequisite: LGG470H1 or permission of instructor.
LGG471H3 Introductory Tamil I
An elementary course for students with minimal or no knowledge of Tamil. Students learn the Tamil script and sound system. The course also develops listening and speaking skills through culturally-based materials. Course materials are enhanced by audio-visual and computer-based activities.
Limited enrolment: 30
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.
Prerequisite: LGG474H or permission of instructor

LGG473H3 Introductory Arabic I
A continuation of LGG471H. Limited enrolment: 30
Exclusion: NEW213Y, knowledge of Arabic beyond materials covered in LGG474H. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course, including those students who meet the prerequisite. Perquisite: LGG471H or permission of instructor

LGG480H3 Introductory Japanese I
A beginning course for those with minimal or no knowledge 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 paragraphs.
Limited enrolment: 30
Exclusion: EAS120Y. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course.

LGG481H3 Introductory Japanese II
Continuation of Introductory Japanese I
Limited enrolment: 30
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.
Prerequisite: LGG480H or permission of instructor

LGG523H3 Intermediate Spanish I
This course reviews Spanish usage, grammar and builds proficiency in listening, speaking, reading, and writing skills. There is a strong focus on the study of culture and the development of cross-cultural analysis
Limited enrolment: 30
Exclusion: SPA220Y, native or near-native proficiency in Spanish. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course, including those students who meet the prerequisite.
Prerequisite: LGG481H or permission of instructor

LGG533H3 Intermediate Spanish II
A continuation of LGG523H.
Limited enrolment: 30
Exclusion: SPA220Y, native or near-native proficiency in Spanish
Prerequisite: LGG523H or permission of instructor

LGG542H3 Intermediate Modern Standard Arabic I
Building on LGG441H, this course develops reading, writing, listening and speaking skills in standard Arabic and introduces new vocabulary and grammatical concepts in context. The course also includes discussion of colloquial Arabic and cultural aspects of everyday life in Arabic-speaking communities.
Limited enrolment: 30
Exclusion: ARA312Y, NML310Y, Arabic courses in high school, advanced knowledge of Arabic. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course, including those students who meet the prerequisite.
Prerequisite: LGG441H or permission of instructor

LGG543H3 Intermediate Modern Standard Arabic II
A continuation of LGG542H. Through the use of authentic texts this course builds on language skills and cultural knowledge acquired in previous courses. The course also includes translation from Arabic to English and vice versa.
Limited enrolment: 30
Exclusion: ARA312Y, NML310Y, Arabic courses in high school, advanced knowledge of Arabic. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course, including those students who meet the prerequisite.
Prerequisite: LGG542H

LGG545H3 Modern Standard Arabic I for Students with Prior Background
A course for students exposed to informal spoken Arabic who wish to reinforce their ability to understand, speak, read and write Modern Standard Arabic. This course includes instruction in grammar, reading comprehension, and composition, through contemporary literary and non-literary texts, and builds oral proficiency with class discussions and audio-visual materials.
Limited enrolment: 30
Exclusion: Not for students educated in Arabic-language schools

LGG553H3 Intermediate Sanskrit I
Students will gain further experience in structure and vocabulary, through exposure to a variety of types of text such as fables, instructional and drama. Classes will meet as a workshop setting.
Limited enrolment: 30
Exclusion: EAS311H, SAN302Y or higher
Prerequisite: LGG551H

LGG555H3 Intermediate Sanskrit II
A continuation of Intermediate Sanskrit I. The class also works on paleography, looking at a single text copied in different character sets by different hands.
Limited enrolment: 30
Exclusion: EAS311H, SAN302Y or higher
Prerequisite: LGG544H or permission of instructor
LGGB63H3 Mandarin for Heritage Students

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 the introductory courses LGGB62H1 and LGGB62H2.

Limited enrolment: 30
Exclusion: All EAS & CHI 200- and higher level language Chinese courses; all B- and higher level LGG Chinese language courses except LGGB62H1 or LGGB62H2.
Prerequisite: LGGB62H1 or permission of instructor

LGGB64H2 Pinyin and Simplified Characters in 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 open to students who have more than the rudiments of Mandarin.

Limited enrolment: 30
Exclusion: All EAS & CHI 200- and higher level language Chinese 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. Prerequisite: LGGB62H1 or LGGB62H2 or permission of instructor

LGGB65H3 Mandarin for Heritage Students II

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 the introductory courses LGGB62H1 and LGGB62H2.

Limited enrolment: 30
Exclusion: All EAS & CHI 200- and higher level language Chinese courses; all B- and higher level LGG Chinese language 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. Prerequisite: LGGB62H1 or permission of instructor

LGGB66H2 Interim Mandarin II

A continuation of LGGB66H1.

Limited enrolment: 30
Exclusion: All EAS & CHI 200- and higher level language Chinese courses; all B- and higher level LGG Chinese language courses except LGGB66H1 or LGGB65H3; 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. Prerequisite: LGGB65H3 or LGGB66H1 or permission of instructor

LGGB67H3 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 theoretical 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.

Limited enrolment: 25
Exclusion: Not for students educated in India. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course. Prerequisite: Permission of instructor

LGGB71H3 Hindi II for Students with Prior Background

Continuation of LGGB71H

Limited enrolment: 25
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. Prerequisite: LGGB71H

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.

Limited enrolment: 25
Exclusion: Not for students educated in Tamil Nadu or Sri Lanka. Prerequisite: LGGB74H3 or permission of instructor
LGGC3H3 Advanced Spanish: Language, Culture and Literature
Focus is on advanced language skills through study of literature and arts in Spain and the Americas within their cultural context. The course includes literary and non-literary texts and other media, with advanced grammar review, composition and conversation. Evaluation is based on compositions, participation and presentations, and examinations.
Limited enrolment: 30
Exclusion: SPA320Y, native or near-native proficiency in Spanish
Prerequisite: LGGB3H3 or permission of instructor

LGGC3H3 Business Spanish
The Spanish language in a business context. Designed with the Management Program in mind, the aim is to develop facility in specialized uses of the Spanish language. The course uses texts and audio-visual materials to present the business world from within and through popular culture and literature.
Limited enrolment: 30
Exclusion: SPA323H
Prerequisite: LGGB3H3 or permission of instructor

LGGC3H3 Introduction to Spanish Translation and Interpretation
A workshop in translation to and from Spanish, focusing on basic theories and problems of translation. Translation of texts from a variety of sources, including law, mass media, business, and science will broaden students’ vocabulary and develop proficiency in handling non-literary text and expression.
Limited enrolment: 30
Prerequisite: LGGC3H3 or LGGC3H4 or LGGC3H5

LGGC3H3 Advanced Spanish: Spain
Focus is on advanced language skills through the study of history, popular culture, and the arts. Using literary and historical readings, film and other media from Spain, the course includes advanced grammar review, composition and conversation. Evaluation is based on written compositions, class participation and presentations, and examinations.
Limited enrolment: 30
Exclusion: SPA329Y, native or near-native proficiency in Spanish
Prerequisite: LGGB3H3 or permission of instructor

LGGC3H3 Advanced Spanish: The Americas
Focus is on advanced language skills through the study of history, popular culture, and the arts. Using literary and historical readings, film and other media from Latin America, the course includes advanced grammar review, composition and conversation. Evaluation is based on written compositions, class participation and presentations, and examinations.
Limited enrolment: 30
Exclusion: SPA320Y, native or near-native proficiency in Spanish
Prerequisite: LGGB3H3 or permission of instructor

LGGC3H3 NON-CREDIT: Spanish Across the Disciplines
Non-credit course applying Spanish language skills to a course with related content. Students enrolled in a relevant course in Humanities, Social Sciences, Arts, etc. A portion of the course work such as readings or written assignments will be completed in Spanish. Course may be used to complete the Language Citation.
Prerequisite: LGGC3H3 or LGGC3H4 or LGGC3H5. Prior arrangement with course instructor required.

LGGC3H4 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.
Note: This course is not for native or near-native speakers.
Limited enrolment: 30
Exclusion: LGGC62H1 or higher, all Chinese language courses with the exception of CH1101Y, CH2101Y, EAS100Y & EAS200Y
Prerequisite: LGGB61H1 or (LGGB84H1) or permission of instructor

LGGC3H4 Advanced Mandarin II
A continuation of LGGC3H4.
Note: This course is not designed for native or near native speakers.
Limited enrolment: 30
Exclusion: LGGC62H1 or higher, all EAS Chinese language courses with the exception of EAS100Y and EAS200Y
Prerequisite: LGGC60H1 or permission of instructor

LGGC3H4 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 400-600 new characters.
Limited enrolment: 25
Exclusion: LGGB66H1, LGGB67H1, LGGC66H1, LGGC67H1
Prerequisite: LGGB63H1 or permission of instructor
Note: Students who complete LGGB66H1 may request permission of instructor to take this course.

LGGC3H4 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.
Limited enrolment: 25
Exclusion: LGGB66H1, LGGB67H1, LGGC66H1, LGGC67H1
Prerequisite: LGGB63H1 or permission of instructor
Note: Students who complete LGGB66H1 may request permission of instructor to take this course.
LGCC69H3 Classical Chinese I

This course will examine classical Chinese texts such as Zen parables, philosophical maxims, proverbial sayings, rhyming couplets, short poems, and Buddhist stories. A working knowledge of modern Chinese will be assumed.

Limited enrolment: 30
Exclusion: EAS206Y, EAS306Y
Prerequisite: LGGB67H or (LGGB02H) or permission of instructor.

LGCC69H3 Classical Chinese II

A continuation of LGCC66H (Classical Chinese I).

Limited enrolment: 30
Exclusion: EAS206Y, EAS306Y
Prerequisite: LGCC66H or permission of instructor.

LGCC70H3 Advanced Hindi:

From Hindustani 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.

Limited enrolment: 25
Exclusion: Not for students educated in India.
Prerequisite: [LGGB70H & LGGB71H] or permission of instructor.

LGGD97H3 LGGD98H3 Experiential Learning in a Language Community

A course for language learning in a community setting. In this course, students further their language proficiency outside the classroom with a project requiring the use of Arabic, Mandarin, Hindi, Spanish, or Tamil for 4-10 hours per week in a community environment. Requires final paper written in the community language.

Prerequisite: 8.5 credits, including a C-level language course, or permission of instructor.

Linguistics (B.A.)

Faculty List
R.I. Bitmick, B.A. (CUNY), M.A., Ph.D. (Chicago), Professor
R. Helms-Park, M.A., Ph.D. (Toronto), Associate Professor
R. Smeth, B.A. (Carleton), M.Sc. (Alberta), Ph.D. (Albetta), Associate Professor
S. Bajer, B.A., M.A., Ph.D. (Toronto), Assistant Professor
A. Hachimi, B.A. (Muscle Island), M.A. (Hawaii), Ph.D. (Hawaii), Assistant Professor
Y. Kang, B.A. (Seoul National), Ph.D. (MIT), Assistant Professor
C. Narayan, A.B. (Berkeley), M.A. (Berkeley), Ph.D. (Michigan), Assistant Professor

Program Director: R. Smyth. Email: smythe@ustc.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). Sub-fields of linguistics include sociolinguistics (language variation according to region, gender, class, etc., as well as the social functions of language); psycholinguistics (language acquisition and processing, and their disorders); 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 and for students who are interested in general and theoretical linguistics.

The Linguistics Study Guide is available at:
http://www.ustc.utoronto.ca/578hunds/11anandll/lmng_studyguide/index.htm

Guidelines for 1st year course selection

Students intending to complete the Specialist Program in Psycholinguistics should include the following in their first year course selection: LINA01H, LINA02H, PSYA01H, PSYA02H. Students intending to complete the Specialist or Major Program in Linguistics should include LINA01H and LINA02H and should consider including a language course. Students intending to complete the Minor Program in Linguistics should include LINA01H and LINA02H. Students are also strongly encouraged to take HUMA01H (Exploring Key Questions in the Humanities) as early as possible in their studies.

Note: For Co-op opportunities related to the Specialist Program in Psycholinguistics, the Specialist Program in Linguistics and the Major Program in Linguistics, please see Humanities Co-operative Program section in this Calendar.
SPECIALIST PROGRAM IN PSYCHOLOGICALS
Program Supervisor: R. Smyth Email: linguistics-program-supervisor@uwo.ca

Program Requirements
Students must complete 12.5 full credits, as follows:

1. LIN401H General Linguistics I
   LIN402H General Linguistics II
   PSY401H Introduction to Psychology: Part I
   PSY402H Introductory Psychology: Part II
   LINB09H Phonetics: The Study of Speech Sounds
   LINB09H Phonology I
   LINB09H Syntax I
   PLIC24H Developmental Psycholinguistics
   PLIC25H Psycholinguistics

2. One of the following:
   LINC05H Morphology
   LINC12H Semantics

3. Two of the following:
   PLID25H Second Language Learning
   PLIC12H Speech Perception
   PLIC34H Reading in a First or a Second Language
   PLID44H Acquisition of the Mental Lexicon
   PLID53H Disorders of Speech and Language
   PLID65H Seminar in Psycholinguistics

4. Three of the following:
   PLIC36H Quantitative Methods in Linguistics (highly recommended)
   PSYB07H Data Analysis in Psychology
   PSYB20H Introduction to Developmental Psychology
   PSYB11H Perception and Cognition
   PSYB17H Memory and Cognition
   PSYB35H Human Brain and Behaviour
   PSYC21H Advanced Developmental Psychology

5. Four further full credits in LIN and/or PLI and/or FRE linguistics (FREC46H, FREC47H, FREC48H, FREC49H), two of which must be at the C- or D-level.

6. One further full credit in PSY, which must be at the C- or D-level.

SPECIALIST PROGRAM IN LINGUISTICS
Program Supervisor: R. Smyth Email: linguistics-program-supervisor@uwo.ca

Program Requirements
Students must complete 11.5 full credits, as follows:

1. All of the following:
   LIN401H General Linguistics I
   LIN402H General Linguistics II
   LINB09H Phonetics: The Study of Speech Sounds
   LINB09H Phonology I
   LINB09H Syntax I
   LINC02H Phonology II
   LINC05H Morphology
   LINC12H Semantics

2. Two further credits from the following, including at least .5 full credit from Group A and at least .5 full credit from Group B:
   \textbf{Group A}
   LINB21H Sociolinguistics
   LINB23H Language, Power and Persuasion
   LINC27H Language and Ethnicity
   LINC28H Language and Gender

   \textbf{Group B}
   PLB255H Second Language Learning
   PLIC12H Speech Perception
   PLIC24H First Language Acquisition
   PLIC34H Reading in a First or a Second Language
PLIC355H Psycholinguistics
PLID44H1 Acquisition of the Mental Lexicon
PLID55H1 Disorders of Speech and Language
PLID65H1 Seminar in Psycholinguistics

3. Either three full credits in a language, whether under the FRE or LGG or other rubric, or two full credits in a language and one full credit in another language.

4. A further two full credits in any LIN, PLI, JAL, or JLP courses, and/or courses selected from the following courses. At least one of these two full credits must be on the C- or D-level.
   - FREC46H1 French Syntax
   - FREC47H1 Special Topics in Linguistics: Pilgrin and Creole Languages
   - FREC48H1 Sociolinguistics of French
   - FREC49H1 French Semantics
   - HUMC131H Religion and Language
   - PHIL85H1 Symbolic Logic I
   - PHIL86H1 Philosophy of Language
   - PHIL86H6 Foundations of Cognitive Science
   - PHILC31H Symbolic Logic II

MAJOR PROGRAM IN LINGUISTICS

Program Supervisor: R. Smyth
Email: linguistics-program-supervisor@utsc.utoronto.ca

Program Requirements
Students must complete eight full credits, as follows:

1. LINA40H1 General Linguistics I
2. LINA40H2 General Linguistics II
3. LINB00H9 Phonetics: The Study of Speech Sounds
4. LINB00H4 Phonology I
5. LINB00H6 Syntax I
6. One of the following:
   - LINC05H5 Morphology
   - LINC22H2 Semantics
7. Four further full credits in LIN and/or PLI and/or FRE linguistics (FREC46H1, FREC47H1, FREC48H1, FREC49H1), of which at least two credits must be at the C- or D-level.
8. One full credit in a language.

MINOR PROGRAM IN LINGUISTICS

Program Supervisor: R. Smyth
Email: linguistics-program-supervisor@utsc.utoronto.ca

Program Requirements
Students must complete four full credits, as follows:

1. LINA01H1 General Linguistics I
2. LINA02H1 General Linguistics II
3. Any two of the following:
   - LINB00H9 Phonetics: The Study of Speech Sounds
   - LINB00H4 Phonology I
   - LINB00H6 Syntax I
4. Two further full credits in LIN and/or PLI and/or FRE linguistics (FREC46H1, FREC47H1, FREC48H1, FREC49H1), of which at least one credit must be at the C- or D-level.

LINA01H3 General Linguistics I
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

LINA02H3 General Linguistics II
An introduction to the application of the linguistic methods and theories in LINA01H to topics such as the relationships between language and mind, language and culture, language and history, and language and society.
Exclusion: LIN100Y
Prerequisite: LINA01H
LIN1A3H3 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.
Limited enrolment: 55
Prerequisite: LIN1A1H

LINB04H3 Phonology I
Practice in analysis of sound patterns in a broad variety of languages.
Exclusion: LIN122HH
Prerequisite: LINB09H

LINB06H3 Syntax I
Practice in analysis of sentence structure in a broad variety of languages.
Exclusion: LIN122H
Prerequisite: LINA01H

LINB08H3 Phonetics: The Study of Speech Sounds
An examination of physiological and acoustic bases of speech.
Exclusion: LIN228H
Prerequisite: LINA01H

LINB13H3 Language Diversity and Language Universals
An introduction to linguistic typology with special emphasis on cross-linguistic variation and uniformity in morphology and syntax.
Exclusion: LIN190H
Prerequisite: LINB08H

LINB17H3 The Structure of English Sentences
Description and analysis of various aspects of the structure and grammar of English sentences, with emphasis on those distinctive and characteristic features most of interest to teachers and students of the language.
Exclusion: LIN204H
Prerequisite: LINA01H

LINB18H3 The Structure of English Words
Description and analysis of the structure of English words, including the sound and word structure systems, with emphasis on those distinctive and characteristic features most of interest to teachers and students of the language.
Exclusion: LIN203H, LINB18H may not be taken after or concurrently with LINC05H
Prerequisite: LINA01H

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.
Exclusion: LINB21H, LINB22H, LIN125H, FREC48H
Prerequisite: LINA01H

LINB23H3 Language, Power and Persuasion
An examination of the relationship between language and power in society.
Students will analyze academic, workplace, cross-cultural, and inter-cultural discourse in order to gain insight into how language is used to establish power relations, express ideology, and to accomplish a variety of other goals in everyday life.
Exclusion: LLA098H
Prerequisite: Any 4 full credits

LINC02H3 Phonology II
Basic issues in phonological theory. This course assumes familiarity with phonetic principles, as discussed in LINB09H, and with phonological problem-solving methods, as discussed in LINB04H.
Exclusion: LIN322H
Prerequisite: LINB04H & LINB09H

LINC05H3 Morphology
Core issues in morphological theory, including properties of the lexicon, combinatorial principles governing complex word-formation, and interactions between word-formation and phonology, syntax and semantics.
Exclusion: LIN331H, LIN333H, LINB05H
Corequisite: LINB04H & LINB09H

LINC06H3 Language Change
An introduction to language change and language relationships.
Exclusion: LIN126H
Prerequisite: LINB04H

LINC08H3 Language History
An introduction to language history, with emphasis on what history can teach us about language and what language can reveal about prehistory and history.
Prerequisite: LINC06H

LINC09H3 Phonetic Analysis
Practical application of phonetic theory with special emphasis on instrumental and experimental techniques.
Limited enrolment: 15
Exclusion: LIN423H
Prerequisite: LINB09H

LINC11H3 Syntax II
Basic issues in syntactic theory, including principles and constraints governing sentence formation and interfaces with other areas of language structure such as morphology and semantics, with emphasis on universal principles.
Exclusion: LIN123H, LIN331H
Prerequisite: LINB09H

LINC12H3 Semantics: The Study of Meaning
An introduction to the role of meaning in the structure, function, and use of language.
Exclusion: LINM1H, FREC49H
Prerequisite: LINB09H
LINC1B1H Writing Systems
The sociolinguistic of written language, and its relationship to speech. The origin and relatives of the Latin alphabet. The types of writing systems, as exemplified by representative written languages (Chinese, Japanese, Korean, Arabic, Sanskrit, etc.), and the principles of their form and function.
Exclusion: JAL328H
Prerequisite: LINB309H

LINC273H Language and Ethnicity
How different ethnic groups become identified by their speech, and concentrating especially on bilingualism in immigrant communities. Conversational pragmatics (e.g. code-switching, language contact issues (e.g. borrowing), and how speakers' consciousness of such phenomena affects their use.
Prerequisite: One full credit at the B-level in LIN or PLI

LINC283H 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.
Exclusion: JAL355H
Prerequisite: One full credit at the B-level in ANT, LIN, SOC, or WST

LINC350H Language Variation
Theory and methodology of variationist sociolinguistics. Topics include: Collection and analysis of natural speech data, linguistic and social factors that constrain language variation (e.g., phonological environment, word classes, style, age, social class, gender, ethnicity, social networks), stable variation vs. changes in progress, and acquisition of linguistic variation.
Exclusion: LIN250H, LIN351H
Prerequisite: LINA61H & LIND28H

LIND31H
LIND28H
LIND53H
LIND65H
LIND56H
LIND65H 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 Supervisor of Studies for Languages and Linguistics.
Prerequisite: At least one full credit at the C-level in LIN & permission of the instructor.

LIND143H Pragmatics
An introduction to pragmatics, the study of the use and interpretation of utterances, with emphasis on the division of labour between semantics and pragmatics. Topics will include inference, presupposition, conversational and conventional implicature, focus and topicalization, the role of context in interpretation and use, and implicit and indirect speech acts.
Prerequisite: LINC12H

PLIB25H Second Language Learning
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. Recommended for students in the Specialist Program in the Education of Teachers in French.
Exclusion: LIND250H
Prerequisite: LINA61H or FRED44H or FRED45H or alternative prerequisite with permission of the instructor.

PLIC155H Speech Perception
An examination of the acoustics and perception of human speech. By looking at the acoustic properties of a variety of languages (including Tamil, Tagalog and First Nations languages), we will explore how people learn the peculiarities of their sound system and what this reveals about the nature of human speech perception.
Prerequisite: LINB309H & LINB309H

PLIC244H Developmental Psycholinguistics
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.
Exclusion: JLP315H
Prerequisite: [One full credit in LIN or [FRED44H & FRED45H]] & one full credit in PSY

PLIC344H Reading in a First or a Second Language
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. This course is recommended for students enrolled in the Specialist Program in the Education of Teachers in French.
Exclusion: LINC344H
Prerequisite: [LINB61H or [FRED44H & FRED45H]] & [PLIC244H or PLIB25H or alternative prerequisite with permission of the instructor]

PLIC555H 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.
Exclusion: JLP344H
Prerequisite: One credit in LIN and one credit in PSY

PLIC655H Quantitative Methods in Linguistics
An introduction to experimental design and statistical analysis for linguistics. Topics include both univariate and multivariate approaches to data analysis for acoustic phonetics, speech perception, psycholinguistics, language acquisition, language disorders, and sociolinguistics.
Exclusion: LIN305H
Prerequisite: At least one full credit in PLI
PLD65H3
PLD50H3
PLD55H3
PLD65H3
PLD50H3
PLD55H3
PLD65H3 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 Supervisor of Studies for Languages and Linguistics.
Prerequisite: At least one full credit at the C-level in PLI & permission of the instructor

PLD44H3 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-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: PLIC24H or permission of the instructor

PLD55H3 Disorders of Speech and Language
Pathologies of language acquisition, comprehension and production. Topics include anatomy and physiology, voice disorders, articulation disorders, cleft palate, aphasia, apraxia, dysarthria, language delay, language learning disabilities, developmental delay, and hearing and auditory processing disorders.
Exclusion: JL347H1
Prerequisite: One full credit in LIN, one full credit in PSY & [PLIC25H or PLIC24H or PLIC35H] or permission of the instructor

PLD64H3 Seminar in Second Language Acquisition
Recent second-language research conducted within a linguistic or psycholinguistic framework. Students participate in weekly discussions, give presentations based on journal articles, and write a final paper on either a narrow topic that has research potential or on the clinical or pedagogical applications of specific research findings.
Prerequisite: PLIB25H

PLD65H3 Seminar in Psycholinguistics
Advanced research seminar based on current research in adult psycholinguistics, first language acquisition, and disorders of speech and language. The course focuses on critical analysis of the design and interpretation of experimental research. Students will be evaluated on their oral presentations, term papers, and class participation.
Prerequisite: LINB40H1 & LINB50H1 & [any two of PLIC24H, PLIC35H, PLIB55H] & [any one of LINC32H or LINC35H or LINC11H or LINC12H] & permission of the instructor. Students must have a GPA of 2.8 or higher in LIN/PLI courses completed.

Management
(B.B.A.)

Faculty List
I. Avrutis, M.Sc., Ph.D. (Moscow Institute of Physics & Technology), Professor
S. Borins, B.A. (Harvard), M.P.P. (Kennedy School of Gov.), Ph.D. (Harvard), Professor
A. Sako, B.A., (Western), M.A.Sc. (Waterloo), Ph.D. (Toronto), Professor
A. Stark, B.A. (U.B.C.), M.Sc. (London), M.A., Ph.D. (Harvard), Professor
J. Wei, B.Sc. (Harbin Inst. (China)), M.B.A. (York, Canada), Ph.D. (Toronto), Professor
P. Aggarwal, B.A., M.B.A. (India), M.B.A., Ph.D. (Chicago), Associate Professor
M. Campbell, B.Sc., M.A., Ph.D. (Toronto), Associate Professor
D. Zarin, B.A., M.A.Sc., Ph.D. (Waterloo), Associate Professor
E. Eling, M. Sc. Ph.D (Tilburg University), Assistant Professor
K. Kim, B.A., M.B.A., (Korea), Ph.D. (Minnesota), Assistant Professor
J. McCarthy, B.A., M.A., Ph.D. (Western), Assistant Professor
S. D. Morris, B.A. (Laurentian), M.A. (Wilfrid Laurier), Ph.D. (Waterloo), Assistant Professor
K. Scott, B.A. (Calgary), M.A., Ph.D. (Waterloo), Assistant Professor
J. Trzeciak, B.S., M.D. (Oaklahoma State), Ph.D. (Purdue), Assistant Professor
S. Ahmed, B.Com., M.A. (Sind), M.B.A. (Concordia), Senior Lecturer
C. Bovaird, B.A. (Queen's), M.Sc. (Stirling), M.B.A. (Western), Senior Lecturer
S. Ding, B.A. (Waterloo), M. Ed. (Toronto), C.A. (CICA) C.P.A., Senior Lecturer
A. Stevins, B.A. (Toronto), M.B.A. (York, Canada), C.M.A., Senior Lecturer
D. Chau, B.Com. (Toronto), M.B.A. (McMaster), Ph.D. (Hokan), Lecturer
L. H. Chen, M.S.Ed. (U Penn), M.B.A., Ph.D. (U Toronto), CGA, Lecturer
J. Heathcoat, B.A., M.A. Ph.D. (Western), Lecturer
H. Lawrence, B.A. (Ambiente), M.A., Ph.D. (McGill), LLB (Ongood), Lecturer
V. Quinn, B.A.Sc., M.A.Sc., Ph.D. (Toronto), Lecturer
G. Quinn, B.A. (U Toronto), C.A., C.M.A., Lecturer
P. Radhakrishnan, B.A. (Windsor), M.A., Ph.D. (Illinois), Lecturer

Chair: M. Krzhainsky
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 degree to students who complete one of the Specialist Programs in Management. We also offer a Co-op version of the Management Program as well as a non-Co-op Certificate in Business.

**Limited enrollment**: Because of pressures of demand for places, it has been necessary to place enrollment limits on most Management courses including those given in the summer session, and on admission to Programs. Information on how to apply for admission to a Program and to limited enrollment courses will be available prior to the end of classes in April.

**Prerequisites**: Students are responsible for ensuring that they have the prerequisites for all Management courses. Students who knowingly or unwittingly register for courses for which they do not have the necessary prerequisites will be denied access to these courses. Students are reminded that an SDF (Standing deferred) in a course is considered not meeting the prerequisite for the subsequent course.

**Management Programs**: The degree offered to management students (Co-op and Non-Co-op) is the B.B.A. Students qualify for the B.B.A. by completing one of the specialist programs in Management. All specialist programs have co-op options, and all are described below. B.B.A. students are not permitted to request either the Major Program in Economics for Management Studies or the Minor Program in Economics for Management Studies.

**Admissions**: Each year, 400 students will be admitted to the Specialist Programs in Management including Co-operative studies. There are three possible ways to be admitted to the Specialist Programs. (Students interested in Co-op should also refer to additional application information in the following Co-op Programs section).

1. **Directly from Secondary School**
   Some students will be admitted directly from high school, on the basis of academic performance. Applicants interested in the Specialist Programs in Management must have completed Grade 12 English and Grade 12 Calculus.

2. **At the End of First Year**
   Most pre-program students will be considered for admission to the various B.B.A. programs at the end of the winter session of their first year. A second round of admissions takes place at the end of the following summer session. The minimum CGPA to guarantee admission to Non-Co-op BBA is calculated annually. For this year, it will not be greater than 3.3. Applications to enter the Co-op B.B.A. (both from pre-program students and from B.B.A. students not in Co-op) will only be considered at the end of first year. Typically, the cut-off for admission to Co-op will be higher than the cut-off for admission to Non-Co-op. Applicants for the Specialist Programs in Management must have completed (or be in the process of completing) MGTAA3H, MGTAA4H, ECMYA0H, ECMYA0H, (MATHA3H and MATHA3H), MATHA3H and MATHA3H (MATHA3H) may also be used to satisfy the calculus requirement) at least 4.0 full credits. Decisions will be made only after all grades are received.

3. **Late Admission**
   A limited number of places in the Non-Co-op B.B.A. will be available to students beyond the two application periods described in the previous section. Students may apply until they have completed up to 10 full credits, and admission will be based on all grades received. Students who have completed more than 10 full credits will not be considered for admission to the Programs. Since the number of students accepted in this category is very limited, students who are denied admission after first year (in the periods at the end of the winter session and the end of the summer session in first year) are strongly advised to visit Academic Advising and Career Centre to explore alternative program options.

**Guidelines for Course Selection for First-Year Students in Management Programs leading to the B.B.A.**
- **Non Co-op Students directly admitted to the B.B.A.**
  - MGTAA3H, MGTAA4H, ECMYA0H, ECMYA0H, MATHA3H, MATHA3H, MATHB5H, MATHB6H are allowed.
- **Co-op Students directly admitted to the B.B.A.**
  - All of the courses listed above for non-co-op students. Co-op students are required to take MATHB5H and MATHB6H in first year.
- **Students admitted directly into Management and Information Technology leading to the B.B.A.**
  - MGTAA3H, MGTAA4H, ECMYA0H, ECMYA0H, CSCA6H, CSCA6H, and MATHA3H or (MATHA3H) or (MATHA3H)

**Recommended Schedule of courses for Co-op Students in First Summer Session:**
- ECMYA0H, ECMYA0H, ECMYA0H, MATHB5H, MATHB6H.
Grades Required to Remain in Programs

In the first year, students will take the courses required for the Program of their choice (see the following paragraph). For information on the assessment of Co-op students, see the Co-operative Programs section of this Calendar. In order to remain in the Program, students who are not in Co-op must maintain a cumulative GPA (CGPA) of 2.0 or higher after having attempted at least 4 full credits and continue to maintain a CGPA of 2.0 or higher after having attempted at least 8 full credits.

Overall course load limit for B.B.A. students

Students may take a maximum of 3.0 full credits in any one session. On occasion, B.B.A. students who have completed at least 10.0 full credits and who have a cumulative GPA of at least 3.5 may be permitted into an additional half-credit course. Requests to add an additional course must be made in writing to management-supervisor-studies@ustc.utoronto.ca. This must be done after the wait list period has ended and before the last day to add courses for the session (see the Sessional Dates section of this Calendar). Students must provide an academic rationale for the request and include their name, student number, the course code and section requested.

Please note that 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.

Guidelines for Course Selection for Students Admitted to Pre-Program and for Non-Program students who are interested in applying to Management

Read the information sent with your offer of admission. Students must have at least 4 full credits from the University of Toronto to apply to Programs. For B.B.A., consideration enrol in: MGTAA0H, MGTAA4H, ECMA04H, ECMA06H, MATA02H, MATA03H

Taking a course in the Humanities or Social Sciences in first year is recommended.

Notice to Non-Program Students

All B, C and D-level Management courses are restricted to students in Management Programs.

Management courses at the St. George campus are restricted and not available to U of T Scarborough students.

CO-OPERATIVE PROGRAMS IN MANAGEMENT

Program Director: C. Arsenault (416-287-7112) E-mail: c.arsenault@ustc.utoronto.ca
Supervisor of Studies: S. Ahmed E-mail: management-supervisor-studies@ustc.utoronto.ca

The Management Co-operative Program is an enriched program which combines academic studies with work experience in public and private enterprises. Depending on their needs and abilities students work in areas such as accounting, public administration, auditing, communications, economic development, finance, human resources/personnel, information systems, marketing, policy and strategic planning. For information about admission, work placements and standing in the Program, please see the Co-operative Programs section of this Calendar.

Full Year/Trimester Programming

The Management Co-op Program operates on a trimester schedule, featuring three terms (fall, winter and summer) in each calendar year. Students work or study in all three terms for four years or until graduation requirements are met. The Program requires eight four-month terms of study and three work terms. Students normally begin with three to five study terms (fall, winter and summer), then alternate study and work terms. Students always conclude their degree with a study term.

Program Requirements

Curriculum

Co-op students will follow the course requirements specified in one of the Specialist in Management Programs with a co-op option. These programs are described later in this section. Please note that in addition to these requirements, Co-op students must have taken MGTCC0H prior to the commencement of their second work term. In the first two years of study most students will follow a common core curriculum of studies (please refer to the detailed requirements in the Management Programs). Students are advised to consult regularly with the Program Supervisor if they have questions regarding course selection and scheduling. It is however the students' individual responsibility to ensure that they have completed the correct courses to make them eligible for each work term and that they have correctly completed Program and degree requirements for graduation.

Work Terms

To compete for a work term a student must be in good standing in the Program and must have completed:

- For the first work term: 7 full credits, including ECMA04H, ECMA06H, MGTAA0H, MGTAA4H, MGTBB0H, MGTBB6H, the appropriate Mathematics courses and the Introduction to Management Co-op Work Term Preparation Course.
- For the second work term: 9 full credits (including, for students in the Specialist Program in Management only, MGTCC0H)
- For the third work term: 11 full credits
SPECIALIST PROGRAM IN ECONOMICS FOR MANAGEMENT STUDIES

Program Requirements

The Specialist Program in Economics for Management Studies requires the completion of the following minimum requirements as part of a twenty-credit degree (B.B.A.).

Note: A single course may only be used to fulfill one of the following requirements:

1. 8.5 full credits in Economics for Management Studies, including ECOMA40H, ECMAM40H, ECOMB40H, ECMAM40H, ECOMB40H, ECOMC40H, ECOMD40H, ECOME40H, and two additional full credits in Economics for Management Studies including at least one at the C-level (not including ECOMC40H, ECOMC40H, ECOMD40H, ECOME40H).

2. [MAT2A3H & MAT3A3H] or [MAT3A0H & MAT3A3H] or [MAT3A0H & MAT3A3H]


4. At least 0.5 credit of courses emphasizing strategic management, chosen from ECOMA34H, ECOMA34H, ECOMA34H, ECOMA34H, ECOMA34H, ECOMA34H, ECOMA34H, ECOMA34H, ECOMA34H, ECOMA34H

5. At least 1.0 full credit from courses within the Department of Humanities.

Note: Students admitted to UTSC prior to September 2008 may take MGTB24H to complete their requirements in place of MGTB09H and MGTB09H. Students admitted to UTSC as of September 2008 must take MGTB09H and MGTB09H to complete their program requirements. The remaining courses needed to complete the degree requirements of 20 credits can be chosen either within or outside the Department of Management in accordance with the student's interest.

Students should be aware that the mathematics requirement implies that Grade 12 Calculus is a prerequisite for entry to this Program. Further, students who are considering graduate work in Economics should be aware that they should accumulate considerably more mathematics than the minimum required; they should consult the Supervisor of Studies in Economics for details.

SPECIALIST PROGRAM IN MANAGEMENT

Supervisor: S. Ahmed. Email: management-supervisor-studies@utsc.utoronto.ca

This Program which has a co-op option is designed to give students a broad exposure to all functional areas of Management as well as a solid grounding in Economics. Co-op students should see the section regarding work term requirements for specific details on courses required before each work term.

Program Requirements

The Program requires the completion of the following minimum requirements as part of a twenty-credit degree B.B.A.:

Note: A single course may only be used to fulfill one of the following requirements:


2. [MAT2A3H & MAT3A3H] strongly recommended or [MAT2A0H & MAT3A3H] or [MAT2A0H & MAT3A3H]

3. At least 0.5 credit of courses emphasizing strategic management, chosen from ECOMA34H, ECOMA34H, ECOMA34H, ECOMA34H, ECOMA34H, ECOMA34H, ECOMA34H, ECOMA34H, ECOMA34H, ECOMA34H

4. ECMAM40H, ECMAM40H, ECMAM40H, ECMAM40H, ECMAM40H, ECMAM40H, and one full credit from the list of Economics for Management Studies courses (not including ECOMA34H, ECOMA34H, ECOMA34H, ECOMA34H, ECOMA34H, ECOMA34H, ECOMA34H, ECOMA34H, ECOMA34H, ECOMA34H)

5. Two-and-a-half additional credits from courses other than MG304, to include at least 1 full credit from courses within the Department of Humanities.

Note: Students admitted to UTSC prior to September 2008 may take MGTB24H to complete their requirements in place of MGTB09H and MGTB09H. Students admitted to UTSC as of September 2008 must take MGTB09H and MGTB09H to complete their program requirements.

The remaining courses needed to complete the degree requirement of 20 credits can be chosen either within or outside the Department of Management in accordance with the student's interest.
SPECIALIST PROGRAM IN MANAGEMENT AND ACCOUNTING

Supervisor: S. Ahmed Email: management-supervisor-studies@uontario.ca

The Accounting Specialist program which has a Co-op option is designed for the individual who is interested in acquiring a concentrated core of accounting and related knowledge required to become a professional accountant. It provides a solid foundation to prepare students to become Chartered Accountants, Certified Management Accountants and Certified General Accountants after graduation. In addition, the Specialist program provides students the personal and professional attributes necessary to build a successful career in senior management.

The Accounting Specialist program encompasses topics such as introductory to advanced financial and managerial accounting, assurance, taxation, economics, and finance, along with a range of more advanced electives which covers topics and competencies that incorporate critical thinking and ethical decision making.

Program Requirements
The Program requires the completion of the following minimum requirements as part of a twenty-credit degree B.B.A.

Note: A single course may only be used to fulfill one of the following requirements:

1. MGTAB03H, MGTAB04H, MGTAB05H, MGTAB06H, MGTAB09H (MGTAB10H), [MGTAB27Y or [MGTAB28H & MGTAB29H]], MGTAB90H, MGTAB90L, MGTAB94H, MGTAB99H
2. [MATA3H1 & MATA3H2] strongly recommended or [MATA3H1 & MATA3H2A & MATA3H2B]
3. At least 0.5 credit of courses emphasizing strategic management, chosen from ECMC43H1, MTGT11H1, MTGT12H1, MTGT13H1, MTGT15H1, MTGT16H1, MTGT19H1, MTGT20H1, MTGT21H1, MTGT22H1 & 1 full credit of C-level Economics for Management Studies courses (not including ECMC41H1, ECMC42H1, ECMC43H1)

MTGT12H1, MTGT13H1, MTGT14H1, MTGT15H1, MTGT16H1, MTGT17H1 & MTGT18H1
4. At least one D-level course from MTGT34H1, [MTGT34H2 or (MTGT12H1)], MTGT35H1, MTGT36H1, MTGT36H2, MTGT37H1

Note: Students admitted to UTSC prior to September 2008 may take MTGT24H1 to complete their requirements in place of MTGT11H1 and MTGT12H1. Students admitted to UTSC as of September 2008 must take MTGT19H1 and MTGT20H1 to complete their program requirements.

The remaining courses needed to complete the degree requirements of 20 credits can be chosen either within or outside the Department of Management in accordance with the student’s interest.

NOTES
• Chartered Accountancy (CA) requirements: For students interested in the CA designation, in addition to the specified courses in item 1 above, the following additional courses must be completed: MTGT17H1, MTGT18H1, MTGT20H1, MTGT21H1 & one of (MTGT34H1 or MTGT35H1), MTGT35H1, MTGT36H1
• Certified Management Accountancy (CMA) requirements: For students interested in the CMA designation, in addition to the specified courses in item 1 above, the following additional courses must be completed: MTGT14H1, MTGT15H1, MTGT16H1, MTGT17H1, MTGT18H1 & MTGT19H1
• Certified General Accountants (CGA) requirements: Students who wish to be eligible for a "block transfer" of credits into CGA PACE studies must also complete: MTGT17H1, [MTGT34H1 or (MTGT12H1)], MTGT35H1 & MTGT36H1
• The advanced auditing courses (MTGT21H & MTGT22H) are part of post-graduate CGA professional studies and students who take these courses as part of their degree studies should be aware that they will still be required to write CGA challenge exams.
• Other: Regardless of which professional accounting path students are interested in pursuing, they are strongly advised to refer to the web-sites of the three professional accounting organizations to be aware of their specified minimum grade requirements and any changes that may occur between updates of the description of this program in the UTSC Calendar.

SPECIALIST PROGRAM IN MANAGEMENT AND FINANCE

Supervisor: S. Ahmed Email: management-supervisor-studies@uontario.ca

This Program which has a co-op option builds on the core of the Specialist in Management Program and offers a deeper and wider coverage of Finance topics. The Program courses will equip students with a comprehensive understanding of financial issues and concepts, and with a firm mastery of methodologies and problem solving skills required in modern-day finance.

Program Requirements
The Program requires the completion of the following minimum requirements as part of a twenty-credit degree B.B.A.: Note: A single course may only be used once to fulfill one of the following requirements:

1. MGTAB03H, MGTAB04H, MGTAB05H, MGTAB06H, MGTAB09H, [MGTAB09H or (MGTAB03H)], [MGTAB17Y or (MGTAB22H & MGTAB23H)], MGTAB90H, MGTAB90L, MGTAB94H, MGTAB99H
2. [MATA3H1 & MATA3H2] strongly recommended or [MATA3H1 & MATA3H2A & MATA3H2B]
3. At least 0.5 credit of courses emphasizing strategic management, chosen from ECMC43H1, MTGT11H1, MTGT12H1, MTGT13H1, MTGT15H1, MTGT20H1, MTGT21H1, MTGT22H1 & 1 full credit of C-level Economics for Management Studies courses (not including ECMC41H1, ECMC42H1, ECMC43H1)

4. ECMC41H1, ECMC42H1, ECMC43H1, ECMC45H1, ECMC46H1, ECMC47H1, ECMC48H1 & 1 full credit of C-level Economics for Management Studies courses (not including ECMC41H1, ECMC42H1, ECMC43H1)
5. MTGT11H1 & MTGT12H1
6. At least 2.0 full credits from MGT709H, MGT710H, MGT712H, MGT718H, ECMC443H, ECMC633H
7. Two and a half additional credits from courses other than MGT ECM, to include at least 1 full credit from courses within the Department of Humanities.

Note: Students admitted to UTSC prior to September 2008 may take MGT242H to complete their requirements in place of MGTB989H and MGT909H. Student admitted to UTSC as of September 2008 must take MGTB909H and MGT909H to complete their program requirements.

The remaining courses needed to complete the degree requirements of 20 credits can be chosen either within or outside the Department of Management in accordance with the student's interest.

SPECIALIST PROGRAM IN MANAGEMENT AND HUMAN RESOURCES
Supervisor: S. Ahmed  Email: management-supervisor-studies@uts.c.utoronto.ca
This program which has a co-op option 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 BBA 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 advanced standing), and you will be well prepared for the CHRP certification exam required by many organizations for upper-level HR positions. In order to qualify for CHRP certification, you must maintain an average of at least 70% across the 9 courses required by CHRP and at least 65% in each of those 9 courses.
By completing this Specialist Program in Management and Human Resources, you will cover the nine required CHRP courses.

Program Requirements
The Program requires the completion of the following minimum requirements as part of a twenty-credit degree B.B.A.:

Note: A single course may only be used once to fulfill one of the following requirements:

1. MGT403H, MGT404H, MGT703H, MGT713H, MGT714H, MGT853H, MGTB863H, MGTB877H or [MGTB870H OR MGTB890H]
2. [MATA23H & MATA33H] strongly recommended or [MATA36H & MATA53H (A36H-A37H)]
3. At least 0.5 credit of courses emphasizing strategic management, chosen from ECMC443H, MGT719H, MGT733H, MGT743H, MGT753H, MGT758H, MGT740H, MGT745H, MGT749H, MGT840H, MGT845H,
5. MGT722H, MGT723H, MGT724H, MGT725H, MGT726H, MGT727H, MGT728H
6. Two and a half additional credits from courses other than MGT ECM, to include at least 1 full credit from courses within the Department of Humanities

Note: Students admitted to UTSC prior to September 2008 may take MGT242H to complete their requirements in place of MGTB909H and MGT909H. Student admitted to UTSC as of September 2008 must take MGTB909H and MGT909H to complete their program requirements.

The remaining courses needed to complete the degree requirements of 20 credits can be chosen either within or outside the Department of Management in accordance with the student's interest.

SPECIALIST PROGRAM IN MANAGEMENT AND INFORMATION TECHNOLOGY
Supervisor: S. Ahmed  Email: management-supervisor-studies@uts.c.utoronto.ca
This program which has a co-op option is designed to give students a broad exposure to all functional areas of Management as well as a solid grounding in Computer Science. Please see the section regarding work term requirements for specific details on courses required before each work term.

Program Requirements
The program requires completion of the following course requirements as part of a twenty-credit degree.

1. MGT403H, MGT404H, ECMC443H, ECMC499H, CSCE256H, CSCE460H
2. [MATA23H & MATA33H] or [MATA36H & MATA53H]
4. MGTB909H & MGT909H
5. CSCE640H, CSCE644H, [CSCE656H or CSCE756H], MGT709H, MGT740H
6. CSCE630H or MGT759H
Note: Students admitted to UTSC prior to September 2008 may take MGT242H to complete their requirements in place of MGTB909H and MGT909H. Student admitted to UTSC as of September 2008 must take MGTB909H and MGT909H to complete their program requirements.

The remaining courses needed to complete the degree requirements of 20 credits can be chosen either within or outside the Department of Management in accordance with the student's interest.
184 Management

SPECIALIST PROGRAM IN MANAGEMENT AND MARKETING
Supervisor: S. Ahmed Email: management-supervisor-studies@utsc.utoronto.ca
Note: Admission to this program will not begin until the 2010 Summer Session.
The Specialist Program in Management and Marketing which has a Co-op option gives students the perspective of the overall organization and beyond. In addition to the Company focus, Marketing also ensures that students take an external orientation by having an in-depth understanding of the Competition and the Consumer. While developing a good understanding of all the issues involved in developing Marketing Strategy, the student will learn to implement the tools of Marketing Tactics.

Program Requirements
The Program requires the completion of the following minimum requirements as part of a twenty-credit degree B.B.A..

Note: A single course may only be used to fulfill one of the following requirements:

1. MGMT303H, MGMT504H, MGTB503H, MGTB504H, MGTB505H, MGTB506H, [MGTB609H or (MGTC503H), [MGTC527Y or [MGTC528H & MGTC529H]], MGTC609H, MGTC506H, MGTC309H, MGTC316H
2. [MATA32H & MATA34H] strongly recommended or [MATA30H & MATA30A/36H/A37H]
3. At least 0.5 credit of courses emphasizing strategic management, chosen from ECMS43H, MGTC519H, MGTC521H, MGTC523H, MGTC531H, MGTC535H, MGTC538H, MGTC539H, MGTC541H, MGTC542H, MGTC545H, MGTC599H, MGTD547H, MGTD548H or [MGTC140H]
4. ECMA40H, ECMA408H, ECOM20H, ECMC701H, ECMC701H, ECMC702H & 1 full credit of C-level Economics for Management Studies courses (not including ECMS501H, ECMC902H, ECMC903H)
5. MGTC13H, MGTC13H, MGTC14H, MGTC21H, MGTD33H, MGTD34H
6. MGTC208H
7. Two-and-a-half additional credits from courses other than MGMT/ECM, to include at least 1 full credit from courses within the Department of Humanities.
Note: Students admitted to UTSC prior to September 2008 may take MGTC24H1 to complete their requirements in place of MGTB90H1 and MGTC90H1. Students admitted to UTSC as of September 2008 must take MGTB90H1 and MGTC90H1 to complete their program requirements.
The remaining courses needed to complete the degree requirements of 20 credits can be chosen either within or outside the Department of Management in accordance with the student's interest.

In addition to the above program requirements, we also offer equally interesting Marketing elective courses, Judgment and Decision Making (MGTC208H) & Marketing in the Information Age (MGTD33H).

SPECIALIST PROGRAM IN STRATEGIC MANAGEMENT
Supervisor: S. Ahmed Email: management-supervisor-studies@utsc.utoronto.ca
This Program which has a Co-op option is designed to give students a broad exposure to all functional areas of Management as well as a solid grounding in Strategic Management.
It covers the direction and coordination of private sector, public sector, or non-profit sector organizations. The specialist requires a grounding in strategic management while providing a variety of elective courses to appeal to students interested in any one of the three sectors as well as electives that appeal to all three.

Program Requirements: The Program requires the completion of the following minimum requirements as part of a twenty-credit degree B.B.A..

Note: A single course may only be used once to fulfill one of the following requirements:

1. MGMT303H, MGMT504H, MGTB503H, MGTB504H, MGTB505H, MGTB506H, [MGTB609H or (MGTC503H), [MGTC527Y or [MGTC528H & MGTC529H]], MGTC609H, MGTC506H, MGTC309H, MGTC316H
2. [MATA32H & MATA34H] strongly recommended or [MATA30H & MATA30A/36H/A37H]
3. At least 0.5 credit of courses emphasizing strategic management, chosen from MGTC319H, MGTC321H, MGTC322H, MGTC331H, MGTC335H, MGTC338H, MGTC341H, MGTC541H, MGTC542H, MGTC545H, MGTD547H, MGTD548H or [MGTC140H]
4. ECMA40H, ECMA408H, ECOM20H, ECMC701H, ECMC701H, ECMC702H & 1 full credit of C-level Economics for Management Studies courses (not including ECMS501H, ECMC902H, ECMC903H)
5. 1 full credit (2 courses) from MGTC41H, MGTC42H or MGTC45H
6. 0.5 full credit (1 course) chosen from the following courses: MGTC519H, MGTC521H, MGTC523H, MGTC531H, MGTC535H, MGTC538H, MGTC539H, MGTC541H, MGTC542H, MGTC545H, MGTC555H, MGTC568H, MGTC599H, MGTD408H, MGTD415H, [MGTD547H or [MGTC140H], ECMB501H, ECMC341H, ECMC434H, PSC506H
7. MGTD47H
8. Two-and-a-half additional credits from courses other than MGMT/ECM, to include at least 1 full credit from courses within the Department of Humanities.
Note: Students admitted to UTSC prior to September 2008 may take MGTC24H1 to complete their requirements in place of MGTB90H1 and MGTC90H1. Students admitted to UTSC as of September 2008 must take MGTB90H1 and MGTC90H1 to complete their program requirements.
The remaining courses needed to complete the degree requirements of 20 credits can be chosen either within or outside the Department of Management in accordance with the student's interest.

**STREAMS OF STUDY**

Streams of study have been replaced by new specialist programs (Management & Accounting, Management & Finance, Management & Human Resources, Management & Marketing, Strategic Management). However, students who were enrolled in the Specialist Program in Management prior to the 2009 Summer Session may, if they wish, opt to enroll in a stream through ROSI during the usual Subject PoS selection periods. For details of course requirements, see the 2008-09 UTSC Calendar or go to http://www.ute.utsc.ont.ca/utm/StreamsStudy.html.

**SPECIALIST PROGRAM IN MANAGEMENT AND HUMANITIES**

**SPECIALIST PROGRAM IN MANAGEMENT AND LANGUAGE (FRENCH)**

**SPECIALIST PROGRAM IN MANAGEMENT AND LIFE SCIENCES**

**SPECIALIST PROGRAM IN MANAGEMENT AND SCIENCE**

**SPECIALIST PROGRAM IN MANAGEMENT AND SOCIAL SCIENCES**

*These Specialist Programs are no longer offered. However, students currently enrolled in the programs may proceed to completing them in the usual manner. All relevant courses continue to be offered.*

**CERTIFICATE IN BUSINESS**

Website: www.ute.utsc.ont.ca/utm/business_cert.html

The Department of Management also offers a Certificate Program for non-degree students. (See the Degrees section of this Calendar for details.) Non-degree students interested in this Certificate Program should visit the Department website.

**MGT030 Introduction to Management I**

This course serves as an introduction to the process of management, including planning, organizing and the role of management within the broader business community. This course should be taken before any other MGT courses. Exclusion: (MGT02Y), (COM101H), MGMT101H, RMSTM100Y

**MGT040 Introduction to Management II**

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 MGT030H. Exclusion: (MGT02Y), MGMT101H, MGMT102H, RMSTM100Y

Prerequisite: MGT030H

**MGT050 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. Limited enrolment: 60

Exclusion: MGMT120H, MGMT201H, MGMT220H, RMSTM100Y, RMSTM220H, VPAH13H

Prerequisite: [ECMA40H & ECMA60H] or [ECMA40H & ECMA60H] & MGT050H

**MGT040H 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. Limited enrolment: 60

Exclusion: (MGT225H), (MGTCO4H), RMSTM250H

Prerequisite: [MGT030H & MGT040H] or (MGT02Y)

**MGT050H Financial Accounting I**

Together with MGT050H, 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. Limited enrolment: 60

Exclusion: MGMT120H, MGMT201H, MGMT220H, RMSTM100Y, RMSTM220H, VPAH13H

Prerequisite: [MGT030H & MGT040H] or (MGT02Y)

Students admitted into the Management Program directly from high school and students registered in Programs requiring this course may take MGT030H & MGT040H concurrently.

**MGT060H Financial Accounting II**

This course is a continuation of MGT050H. Students are encouraged to take it immediately after completing MGT050H. 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.

Limited enrolment: 60

Exclusion: MGMT120H, MGMT201H, MGMT220H, RMSTM220H, VPAH13H

Prerequisite: MGT060H

**MGT090H 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.

Limited enrolment: 60

Exclusion: ACTB40H, ACTC201H, (MGTCO2Y), (MGTCO3H), (MGTC31Y), (MGTC37Y)

Prerequisite: [ECMB09Y or ECMB11H] & MGT090H
MGTB23H1 Managing People in Organizations
An introduction to micro- and macro-organizational behaviour theories from both conceptual and applied perspectives. Students will examine a variety of theories and concepts to help them develop an understanding of the behaviour of individuals in all types of organizational settings. Topics covered include: individual differences, motivation and job design, work attitudes, decision making, leadership. Limited enrolment: 60
Exclusion: MGTB27Y, MGTB26H, RSM26B, LPSY332H
Prerequisite: [MGTB03H & MGTB04H] or (MGTB20Y)

MGTB27Y1 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, organizational design, culture, and innovation, group dynamics and inter-group relations. Limited enrolment: 60
Exclusion: MGTB26H, MGTB23H, MGTB29H, RSM26H
Prerequisite: [MGTB03H & MGTB04H] or (MGTB02Y)

MGTB29H1 Managing Groups and Organizations
An introduction to the practical and theoretical aspects of macro-organizational behaviour. Building on MGTB23H, students will be introduced to theoretical and practical aspects of macro-organizational levels of behavior that tackle management issues at group and organizational levels of analysis. Topics covered include: organizational design, culture, innovation, power and politics, group dynamics and organizational change. Limited enrolment: 60
Exclusion: MGTB27Y, MGTB26H, RSM26H
Prerequisite: MGTB29H

MGTB80H3 Business Communication Skills
This course focuses on honing core skills for effective business communication. Students will attend lectures each week given by experts in the field and then practice specific written and oral skills in smaller laboratory groups. This course will cover topics such as persuasive communication, handling the media, and providing performance feedback. Exclusion: MGTB24H
Prerequisite: MGTB03H & MGTB04H

MGTB80H3 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. Limited enrolment: 60
Exclusion: MGTB23H, MGTB22H, RSM22H
Prerequisite: MGTB03H

MGTB87H3 Intermediate Financial Accounting I
Together with MGTB88H3, this course examines financial reporting in Canada. Through case analysis and the technical material covered, students will build on their knowledge covered in MGTB05H, MGTB06H and, to a lesser extent, MGTB08H.
Limited enrolment: 60
Exclusion: MGTB24H, MGTB22H, RSM22H, RSM28H
Prerequisite: Completion of 8.0 full credits including MGTB03H & MGTB04H

MGTB88H3 Intermediate Financial Accounting II
This course is a continuation of MGTB87H3. Students will further develop their case writing and technical skills and professional judgment through the study of several complex topics. Topics include leases, bonds, pensions, future taxes and earnings per share. Students must complete MGTB87H3 before attempting this course.
Limited enrolment: 60
Exclusion: MGTB24H, MGTB22H, RSM22H, RSM28H
Prerequisite: MGTB87H

MGTB90H3 Intermediate Finance
This course covers mainstream finance topics. Besides a deeper examination of certain topics already covered in MGTB09H, 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.
Limited enrolment: 60
Exclusion: MGTB02Y, MGTB31Y, MGTB37Y
Prerequisite: MGTB09H or MGTB03H

MGTB11H3 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.
Limited enrolment: 60
Exclusion: MGTB31H, RSM27H
Prerequisite: MGTB03H & [MGTB23H & MGTB29H] or MGTB29Y

MGTB12H3 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 behavioral sciences dealing with perception, personality, psychological appeals, and their application to advertising as a persuasive communication. Students will gain experience preparing a promotional plan for a small business. The course will rely on lectures, discussions, audiovisual programs and guest speakers from the local advertising industry.
Limited enrolment: 40
Exclusion: MGTB02H
Prerequisite: [MGTB03H & MGTB04H] or (MGTB02Y) & (MGTB40H) or (MGTB04H)
MGT15H3 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. (Not offered in 2009/2010)
Limited enrolment: 40
Prerequisite: MGT04H & ECM192H

MGT14H4 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. (Not offered in 2009/10)
Limited enrolment: 40
Prerequisite: MGT04H

MGT16H3 Canadian Income Taxation I

First of two courses in Canadian income taxation. It provides the student with detailed instruction in income taxation as it applies to individuals and small unincorporated businesses. Current tax laws are applied to practical problems and cases. Covers employment income, business and property income, and computation of tax for individuals.
Limited enrolment: 60
Exclusion: (MGT15Y), MGT423H, RSM324H
Prerequisite: Completion of at least ten full credits including MGT05H1 & MGT16H3 & MGT28H1
MGT16H3 is highly recommended.

MGT17H3 Canadian Income Taxation II

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 re-organizations, partnerships, trusts, and individual and corporate tax planning.
Limited enrolment: 60
Exclusion: (MGT15Y), MGT429H, RSM424H
Prerequisite: MGT16H3

MGT18H3 New Ways of Work: Consulting, Contracting & Freelancing

With the changing nature of employment, students are increasingly likely to find careers involving a series of short-term contracts or project related assignments. The successful manager of the future will not have "jobs", but portfolios of adaptable and transferable skills. The course examines what consultants do, and why organizations engage consultants.
Limited enrolment: 60
Prerequisite: MGT03H & [MGT023H & MGT029H] or MGT27H

MGT20H3 Judgement and Decision Making

This course combines the elements of behavioral research as applied to consumers’ decision making models and how this can be used to predict decisions within a marketing and consumer orientated environment. It also delves into psychology, economics, statistics, and other disciplines.
Limited enrolment: 30
Prerequisite: MGT04H

MGT21H3 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. (Not offered in 2009/2010)
Limited enrolment: 40
Prerequisite: MGT04H

MGT22H3 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 workplace.
Limited enrolment: 60
Exclusion: MGT460H, RSM460H
Prerequisite: [MGT023H & MGT029H] or MGT27H

MGT23H3 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.
Limited enrolment: 60
Prerequisite: [MGT023H & MGT029H] or MGT27H

MGT24H3 Managerial Skills

This course deals with the development of managerial skills. It provides opportunities for students to develop skills related to the conceptual knowledge addressed in earlier courses. The objective is to improve students' own personal management competencies in areas such as interpersonal relations, decision making, problem solving, motivating, leading, and teamwork.
Limited enrolment: 60
Exclusion: MGT09H8, MGT09H8
Prerequisite: [MGT023H & MGT029H] or MGT27H

MGT31H3 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.
Limited enrolment: 60
Exclusion: MGT39H3, RSM225H
Prerequisite: Completion of at least ten full credits including MGT05H1 & MGT06H1
MGT32H5 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.
Limited enrolment: 60
Exclusion: MGT394H1, RSM325H1
Prerequisite: MGT32H3

MGT33H3 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.
Limited enrolment: 60
Prerequisite: Completion of at least 10 full credits in the B.B.A. program

MGT34H4 International Accounting
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.
Limited enrolment: 60
Prerequisite: MGT30H3 and MGT30H1

MGT35H3 Narratives on Management and Organization
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.
Limited enrolment: 55
Prerequisite: [MGTB23H3 & MGTB29H1] or MGTB27Y

MGT36H3 Management Communications
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.
Limited enrolment: 40
Prerequisite: MGTB23H3 or MGTB27Y

MGT38H3 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.
Limited enrolment: 60
Exclusion: MGT491H3, RSM491H3
Prerequisite: [MGTB23H3 & [MGTB29H1 or MGTB27Y]]

MGT39H3 New Venture Creation and Planning
Aims 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 plan 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: MGTB04H1 & MGTB05H & MGTB06H

MGT41H3 Management Policy and 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.
Limited enrolment: 60
Exclusion: MGT492H1, RSM492H1, VPAC13H
Prerequisite: [MGTB29H1 or MGTB27Y] & [ECMB20H or ECMB20H]

MGT42H3 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.
Limited enrolment: 35
Prerequisite: [MGTB23H3 or MGTB27Y] or [POLB50H1 & POLB52H1]

MGT44H3 International Business Management
This course deals with problems facing managers of international business, such as political risk & contingency planning, human threats and weather extremes, relationships with NGOs (WTO, IMF & World Bank), Foreign Direct Investment & foreign exchange issues.
Limited enrolment: 60
Exclusion: MGT491H1, RSM491H1
Prerequisite: [MGTB23H3 & MGTB29H1 or MGTB27Y]
MGTC45H3 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, licenser, 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.

Limited enrolment: 60
Prerequisite: [MGTA03H & MGTA04H] or [MGTA02Y]

MGTC46H3 Managerial Perspectives in a Global Economy

The surge in globalization, especially for Canada, has increased the need to extend managerial principles into a global context. Topics explored include issues around doing business in the global economy, from international trade, multinational strategies, outsourcing, risk management, and global financial strategies. International trading systems institutions are also considered.

Limited enrolment: 60
Exclusion: ECOM39H, ECOM36Y, ECO364H
Prerequisite: ECOM20H & ECOM206H

MGTC52H3 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.

Limited enrolment: 60
Prerequisite: [MGTB23H & MGTB29H] or MGTB27Y

MGTC53H3 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.

Limited enrolment: 60
Prerequisite: Completion of at least ten full credits including [ECMA10H & ECMA20H] or [ECMA40H & ECMA406H] & [MGTA02H & MGTA04H] or [MGTA04Y]

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.

Limited enrolment: 20
Prerequisite: MGTB09H

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.

Limited enrolment: 20
Prerequisite: MGTB03H

MGTC58H3 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.

Limited enrolment: 60
Exclusion: PHIL360H
Prerequisite: [MGTA03H & MGTA04H] or [MGTA02Y]

MGTC78H3 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.

Limited enrolment: 50
Exclusion: MGT709H
Prerequisite: [(MGTB09H or (MGTB03H) or (MGTB27Y)]

MGTC79H3 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.

Limited enrolment: 20
Exclusion: MGTA43H, RSMA35H
Prerequisite: [ECMB11H or ECMB209Y] & [MGTB09H or MGTB03H] or [MGTC02Y]
Corequisite: MGTC09H

MGTC74H3 Analysis for Decision-Making

An introduction to the applications of Management Science in decision-making situations involving organizations like manufacturing, service and non-business institutions. Topics include linear programming; integer programming; transportation, assignment and transshipment problems; waiting line models; and decision analysis. Many of the techniques learned involve determining an optimal decision subject to various constraints.

Limited enrolment: 60
Prerequisite: [MATA22H & MATA33H] or [MATA270H] & ECOM20H & [ECMB11H & ECMB12H] or ECOM09Y]
MGTC750H3 Operations Management: A Mathematical Approach
Introduction to the broad scope and major strategic, tactical, and operational decisions in Operations Management. Topics include: forecasting, long-range capacity planning, location and layout of facilities, aggregate planning, project management, inventory control, and production scheduling.
Limited enrolment: 60
Exclusion: MGTC600H3, MGTC734H1, RSM370H1
Prerequisite: MGTC741H1

MGTC890H3 Business Leadership 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.
Limited enrolment: 40
Exclusion: MGTC242H1
Prerequisite: MGTC831H3 & MGTB90H1

MGTD800H3 Marketing in the Information Age
Information technology has had a radical impact on the marketing of even common consumer goods. This course allows students to become conversant with the implications and implementations of internet-related changes on business. Students will gain experience in critiquing web-sites of existing companies.
Limited enrolment: 40
Prerequisite: [MGTB804H1 or (MGTC441H1)]

MGTD807H3 Market Research
A decision oriented course, which introduces students to the market research process. Alternative research approaches (explanatory, 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.
Limited enrolment: 40
Exclusion: MGTC350H1, RSM452H1
Prerequisites: [ECMB311H1 & ECMB321H1] or ECMB309F1 & [MGTB841H1 or (MGTC441H1)]

MGTD130H3 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.
Limited enrolment: 30
Prerequisite: [MGTA043H1 & MGTA045H1] or [MGTA052Y1 & MGTA044H1 or (MGTC404H1)]

MGTD141H3 Leadership and Management in the 21st Century
The information age, intense global competition and an increasingly diverse workforce have ushered in the need for a new type of leader. This seminar will draw on empirical research and lessons learned from exceptional leaders to guide students in becoming the kind of leaders that will thrive in the new millennium.
Limited enrolment: 30
Prerequisite: [MGTB232H1 & MGTD209H1] or [MGTB277Y1] & [MGTD244H1 or MGTC90H1]

MGTD159H3 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, arbitration and litigation as alternatives to traditional court-based litigation.
Limited enrolment: 50
Prerequisite: Completion of at least 8.0 full credits

MGTD200H3 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.
Limited enrolment: 40
Exclusion: MGTC350H1, MGTC550H1
Prerequisites: [MGTB904H1 or (MGTC441H1)] & [5.0 full credits of C- or D-level marketing electives from within [MGTD124H1 & MGTD124H1, MGTD204H1, MGTD208H1, MGTD207F & MGTD213H1]]

MGTD240H3 Occupational Health and Safety Management
Occupational health and safety is a management function, however, many managers are not prepared for the 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.
Limited enrolment: 30
Prerequisite: MGTC220H1

MGTD250H3 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 interview in making selection decisions.
Limited enrolment: 40
Prerequisite: MGTC221H

MGTD260H3 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.
Limited enrolment: 40
Prerequisite: MGTC221H
MGTD27H3 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.
Limited enrolment: 40
Prerequisite: MGTC22H

MGTD28H3 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.
Limited enrolment: 40
Prerequisite: MGTC22H

MGTD49H3 Knowledge Management
The course considers skills for managing knowledge assets and intellectual capital: fostering knowledge creation, representing and transferring knowledge and experience, building knowledge networks and communities of practice, managing knowledge assets for a competitive advantage and using information technology to support knowledge management.
Limited enrolment: 30
Prerequisite: Completion of at least 10 full credits in the B.B.A. program

MGTD48H3 Intellectual Property Law
This course considers patents, trade marks, 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: MGTC31H
Recommended preparation: 9.5 full credits in addition to the prerequisite.

MGTD47H3 Senior Seminar in Strategic Management
This course allows 4th year specialists in strategic management to apply their specific skills to several large, in-depth studies of strategic management issues in open-ended real-world cases. How strategic decisions are made at the higher levels of management with an opportunity to integrate previous training through analyses and presentations.
Limited enrolment: 20
Prerequisite: Completion of at least eleven full credits with one full credit (2 courses) from MGTC41H, MGTC42H or MGTC45H.

MGTD59H3 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.
Limited enrolment: 60
Prerequisite: MGTC07H & MGTC08H

MGTD55H3 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.
Limited enrolment: 60
Exclusion: MGTC10H, RSM422H, MGTD428H
Prerequisite: MGTB03H & [MGTB123H & MGTB29H] or MGTB27Y

MGTD55H3 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 harmonisation, special purpose entities, whistle-blowing, the environment and social responsibility and professional education and career issues.
Limited enrolment: 60
Prerequisite: MGTC07H & MGTC08H

MGTD56H3 Advanced Accounting Case Analysis
This capstone case analysis course stresses the critical thinking skills required of Management program graduates. Due to its integrative nature, with emphasis on current accounting issues, the course is primarily directed towards accounting students. Cases will strategically include the specific competency areas outlined in the CICA’s CA Candidates Competency Map.
Limited enrolment: 40
Prerequisite: MGTC07H & MGTC08H

MGTD49H3 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.
Limited enrolment: 60
Prerequisite: MGTC07H
Mathematics

MGTD61H3 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.
Limited enrolment: 60
Exclusion: (MGTD60Y)
Prerequisite: MGTD60H

MGTD62H3 Auditing in a Computer Environment
An examination of the problems related to auditing computer system generated financial data, including consideration of risks and exposure, evaluation of controls and audit strategy development. Attention will also be given to computer-assisted audit techniques.
Limited enrolment: 60
Exclusion: (MGTD60Y)
Prerequisite: MGTD60H

MGTD71H3 Advanced Financial Management
This course reinforces and expands upon the topics covered in MGTD69H (MGTD69H) and MGTD69H. 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.
Limited enrolment: 50
Prerequisite: MGTD69H or (MGTD69Y)

MGTD72H3 Mergers and Acquisitions: Theory and Practice
This course provides a general introduction to the important aspects of M&A, including valuation, restructuring, diversification, takeover defense, deal structuring and negotiations, and legal issues.

Limited enrolment: 40
Exclusion: MGTD43H, RSM43H
Prerequisite: MGTD69H or (MGTD69Y)

MGTD78H3 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.
Limited enrolment: 60
Exclusion: MGTD30H, RSM33H
Prerequisite: (MGTD69H or (MGTD69H)) or (MGTD69Y)
Corequisite: MGTD69H

MGTD78H3 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.
Limited enrolment: 50
Exclusion: RSM432H, MGTD432H
Prerequisite: MGTD69H

MGTD80H3
MGTD81H3
MGTD82Y3 Supervised Reading Courses
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.
Our Mathematics began in the ancient Mesopotamian civilizations. The Babylonians already knew much of the mathematics taught traditionally in our schools. Their algebra and geometry was phrased in terms of crops and fields and money. Since the Renaissance, much of mathematics has come from problems in physics and astronomy; for example, calculus arose from problems in mechanics. In turn mathematics has provided the theoretical framework and tools in the Physical Sciences. In the 19th century, some parts of mathematics appeared to develop away from their origins in the physical world. To the great surprise of many scientists and mathematicians, some of the "pure" mathematics has turned out to be essential in many aspects of 20th century science. Differential geometry provides the language for general relativity and cosmology, and Hilbert space theory and group representations are the tools for quantum mechanics. Similarly, graph theory, combinatorics and number theory play a major role in computer science. The Specialist and Major Programs in Mathematics and the Specialist Program in Mathematics and Its Applications are eligible for inclusion in the Co-operative Program in Physical Sciences and in the Concurrent Teacher Education Program (CTEP). Please refer to the Physical Sciences section, the Co-operative Programs section and the Concurrent Teacher Education section of this Calendar for further information. The Supervisor of Studies for the Co-operative programs is H. Chryssostomou (h.chryssostou@sts.uottawa.ca).

Guidelines for 1st year course selection
Students intending to complete Mathematics programs should include the following in their first year course selection:
- Specialist Programs in Mathematics: [CSCA48H, MAT22H, MAT30H, MAT37H, PHYA1H, PHYA2H]
- Specialist Programs in Mathematics & Its Applications: [CSCA48H or PSCB37H, MAT22H, MAT30H, MAT37H]
- Major Program in Mathematics: [CSCA48H or PSCB37H, MAT30H, [MAT36H or MAT37H]

Students might also want to include one of the recommended writing courses.

Science Engagement Courses
For science experiential learning through community outreach (SCI801H), classroom in-reach (SCI802H) and team research, please see the Science Engagement section of this Calendar

SPECIALIST PROGRAM IN MATHEMATICS

Supervisor of Studies: E. Moore (416-287-7267), Email: emoore@mts.uottawa.ca
The Specialist Program in Mathematics is designed to give students a thorough grounding in the main areas of Mathematics, together with an understanding of the close relationship between Mathematics and other Sciences. It provides an excellent education for students who may decide to pursue a career in research, or who wish to go on to careers in non-mathematical fields.

Writing Requirement: Students are required to take a course from the following list of courses by the end of their second year:

Program Requirements

1. (3.0 credits):
   - CSCA48H Introduction to Computer Science
   - MAT22H Linear Algebra I
   - MAT30H Calculus I
   - MAT37H Calculus II for Mathematical Sciences
   - PHYA1H Introduction to Physics IA
   - PHYA2H Introduction to Physics IA

2. (2.5 credits):
   - [CSCB70H Software Design or
   - CSCB36H] Introduction to the Theory of Computation
   - MATB24H Linear Algebra II
   - MATB41H Techniques of the Calculus of Several Variables I
   - MATB42H Techniques of the Calculus of Several Variables II
   - MATB43H Introduction to Analysis

3. (1.5 credits):
   - MATB41H Differential Equations I
   - STAB52H An Introduction to Probability
   - STAB57H An Introduction to Statistics

4. (1.5 credits):
   - MATC31H Groups and Symmetry
   - MATC32H Fields and Groups
   - [MATC13H Introduction to Number Theory or
   - MATC25H] Classical Plane Geometries and their Transformations
5. (1.0 credit): MATC34H Complex Variables
   MATC64H1 Differential Equations II

6. (1.0 credit): Two of:
   MATB15H1 Linear Programming and Optimization
   MATC27H1 Introduction to Topology
   MATC35H1 Chaos, Fractals and Dynamics
   MATC73H1 MATC35H1 Introduction to Real Analysis
   MATC65H1 Complex Variables II
   MATD10H1 Topics in Mathematics I
   MATD11H1 Topics in Mathematics II
   MATD12H1 Topics in Mathematics III

7. (0.5 credit): One of:
   CSCE20H1 Numerical Algebra and Optimization
   CSCE51H1 Numerical Approximation, Integration and Ordinary Differential Equations
   MATC89H1 Introduction to Mathematical Logic
   MATC16H1 Coding Theory and Cryptography
   MATC32H1 Graph Theory and Algorithms for its Applications
   MATC44H1 Introduction to Combinatorics

8. 1.0 credit from MAT at B-, C-, or D-level.

9. (0.5 credit):
   CSCD03H1 Social Impact of Information Technology
   or
   PSYC22H1 Current Questions in Mathematics and Science

Note: PSYC22H1 is a required course for ITU students.
Recommended course: PHYS21H

MAJOR PROGRAM IN MATHEMATICS

Supervisor of Students: N. Cherednik
Email: n.cherednik@utoronto.ca

Recommended Writing Course: Students are urged to take a course from the following list of courses by the end of their second year:
   ANA40H1, ANA40H2, (CLA20H1), ENGA40H1, ENGA11H1, ENGB06H, ENGB07H, ENGB08H, ENGB09H, ENGB11H, ENGB12H, ENGB13H, ENGB14H, ENGB15H, GGRA21H, GGRA22H, GGRA23H, GGRA24H, HUMA11H1, HUMA12H1, HUMA13H1, HUMA14H1, HUMA15H1, LTA10H1, PHIL21H1, PHIL22H, PHIL21H, PHIL22H, WSTA01H.

Program Requirements
This program requires eight full credits.

1. Core Courses:
   [CSCE45H1 Introduction to Computer Science
   or
   PSYC57H1 Introduction to Scientific Computing
   or
   MATC23H1 Linear Algebra I
   MATA30H1 Calculus I
   MATA36H1 Calculus II for Physical Sciences
   or
   MATC37H1 Calculus II for Mathematical Sciences (recommended)
   MATB24H1 Linear Algebra II
   MATB41H1 Calculus of Several Variables I
   MATB42H1 Calculus of Several Variables II
   STAT22H1 Introduction to Probability
   or
   MATC13H1 Introduction to Number Theory
   or
   MATB43H1, MATB44H1, MATC37H1, MATC38H1, MATC39H1, MATC40H1, MATC41H1, MATC42H1, MATC43H1, MATC44H1, MATC45H1
   or
   MATB43H1, MATB44H1, MATC37H1, MATC38H1, MATC39H1, MATC40H1, MATC41H1, MATC42H1, MATC43H1, MATC44H1, MATC45H1

2. Analysis: 1.5 credits from:
   MATB43H1, MATB44H1, MATC37H1, MATC38H1, MATC39H1, MATC40H1, MATC41H1, MATC42H1, MATC43H1, MATC44H1, MATC45H1

3. Algebra and Geometry: 1.0 credit from:
   MATB46H1, MATC38H1, MATC40H1, MATC42H1, MATC43H1, MATC44H1, MATC45H1
   or
   MATB46H1, MATC38H1, MATC40H1, MATC42H1, MATC43H1, MATC44H1, MATC45H1

4. Applications: 1.0 credit from:
   CSC C-level, CSC D-level, MATC20H1, MATC32H1, MATC44H1, MATC58H1, MATC58H1, MATC60H1, MATD61H1, STAB57H1
   or
   any STA C-level course, any STA-300, STA-400 level course on the St. George campus
SPECIALIST PROGRAM IN MATHEMATICS AND ITS APPLICATIONS

Supervisor of Studies: E. Moore (416-287-7267) Email: emoore@utm.utoronto.ca

The Specialist program in Mathematics and its Applications is recommended to students with strong interests in mathematics and with career goals in areas such as teaching, computer science, the physical sciences and statistics. The program is flexible; there is a core of courses in mathematics and related discipline, but you can choose among several areas of concentration.

Writing Requirement: Students are required to take a course from the following list of courses by the end of their second year.


Program Requirements

Core for all program streams:
1. (2.0 full credits):
   [CSCA44H Introduction to Computer Science
   or
   PSCB57H1 Introduction to Scientific Computing (if PSCB57H1 is selected it should be taken in second year)*
   MAT237Y1 Linear Algebra I
   MAT366H1 Calculus II for Physical Sciences
   or
   MAT378H1 Calculus II for Mathematical Sciences (recommended)
2. (2.5 credits):
   MATB240H Linear Algebra II
   MATB410H Techniques of the Calculus of Several Variables I
   MATB420H Techniques of the Calculus of Several Variables II
   MATB430H Introduction to Analysis
   MATB440H Differential Equations I
3. (1.6 credits):
   STAB32H1 An Introduction to Probability**
   STAB37H1 An Introduction to Statistics**
4. (0.5 credit):
   MATC01H Groups and Symmetry
5. (0.5 credit):
   MATC481H Complex Variables
* PSCB57H1 is required for the Computational Physical Sciences stream
** STAB32H1 and STAB37H1 must be taken in second year for the Statistics stream

AREAS OF CONCENTRATION:

Teaching Stream:

1. (2.0 full credits):
   MATC02H Fields and Groups
   MATC151H Introduction to Number Theory
   MATC255H Classical Plane Geometries and their Transformations
   [MATC282H Graph Theory and Algorithms for its Applications
   or
   MATC440H Introduction to Combinatorics
2. (1.5 credits): Three of:
   MATB11H Linear Programming and Optimization
   MATB09H Introduction to Mathematical Logic
   MATB16H Coding Theory and Cryptography
   MATB33H Chaos, Fractals and Dynamics
   MATC37H (MATC38H) Introduction to Real Analysis
   MATC46H Differential Equations II
   MATC43H Differential Geometry I
   MATC55H Complex Variables II
   MATC001H Beginnings of Mathematics
3. (2.0 full credits):
   MATC82H Mathematics for Teachers
   Three C- or D-level CSC, MAT or STA half-credit courses
4. (0.5 credit):
   PSCD02H Current Questions in Mathematics and Science
   or
   CSCD00H Social Impact of Information Technology
Statistics Stream:
1. (2.5 credits): MATB61H Linear Programming and Optimization
   MATC02H Fields and Groups
   MATC25H Classical Plane Geometries and their Transformations
   MATC46H Differential Equations II
   STAC67H Regression Analysis

2. (1.0 credit): Two of:
   MATC55H Chaos, Fractals and Dynamics
   MATC37H (MATC39H) Introduction to Real Analysis
   MATC58H An Introduction to Mathematical Biology
   MATC55I Complex Analysis II

3. 2.0 credits from ACTB47H, C-level STA courses and 300- and 400-level STA courses on the St. George campus.

4. (0.5 credit):
   PSCD02H Current Questions in Mathematics and Science
   or
   CSCD03H Social Impact of Information Technology

Computational Physical Sciences Stream:
1. (5.0 full credits):
   ASTA01H Introduction to Astronomy and Astrophysics I: The Sun and Planets
   ASTA02H Introduction to Astronomy and Astrophysics II: Beyond the Sun and Planets
   CSCC50H Numerical Algebra and Optimization
   CSCC51H Numerical Approximation, Integration and Ordinary Differential Equations
   MATB61H Linear Programming and Optimization
   MATC35H Chaos, Fractals and Dynamics
   MATC44H Introduction to Combinatorics
   MATC46H Differential Equations II
   PHYA101 Introduction to Physics IA

2. (1.5 credits): Three of:
   ASTB21H Solar System and Stellar Astrophysics
   ASTC22H Galactic and Extragalactic Astrophysics
   PHYS20H Vibration and Waves
   PHYS21H Electricity and Magnetism
   PHYS25H Foundation of Modern Physics
   PHYC24H Quantum Physics I

3. (0.5 credit): One of:
   CSCD181H Computer Graphics
   MATC05H Complex Variables II
   MATD94H Readings in Mathematics
   MATD95H Readings in Mathematics
   PSCD02H Current Questions in Mathematics and Science
   or
   CSCD03H Social Impact of Information Technology

Computer Science Stream:
See Joint Mathematics stream in the Computer Science Specialist Program

Design Your Own Stream:
1. (6.0 full credits): 12 half-credit courses chosen with the approval of the program supervisor for Mathematics and its Applications.

2. (0.5 credit):
   PSCD02H Current Questions in Mathematics and Science
   or
   CSCD03H Social Impact of Information Technology

SPECIALIST PROGRAM IN QUANTITATIVE ANALYSIS
See the Statistics section of this Calendar for program requirements.

SPECIALIST PROGRAM IN NATURAL SCIENCES
See the Physical Sciences section of this Calendar for program requirements.
MATA20H3 Calculus A
Limits, continuity, derivatives, derivatives of higher order, analysis of graphs, use of derivatives, integrals and their applications, fundamental theorems of Calculus.
Note: This course will be discontinued after 2009/10.
Prerequisite: Grade 12 Advanced Functions

MATA21H3 Calculus B
Techniques of integration, sequences, series, Taylor series, differential equations.
Note: This course will be discontinued after 2009/10.
Prerequisite: MATA20H3

MATA23H3 Linear Algebra I
Systems of linear equations, matrices, Gaussian elimination; vector spaces, basis, dimension; inner product spaces, geometry in 3; linear transformations; determinants, Cramer's rule; eigenvalues and eigenvectors, diagonalization; orthogonal transformations.
Exclusion: MAT223H
Prerequisite: Grade 12 Vectors and Calculus or [Grade 12 Advanced Functions and Introductory Calculus & Geometry and Discrete Mathematics]

MATA30H3 Calculus I
Prerequisite: Grade 12 Vectors and Calculus

MATA32H3 Calculus for Management I
This is a calculus course with most examples and applications of an economic nature. Topics to be covered: linear programming (geometric); 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 Vectors and Calculus

MATA33H3 Calculus for Management II
This course will introduce the students to multivariable calculus and linear algebra. Topics will include: 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: MATA21H3

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; differential equations; population dynamics, vectors and matrices in 2 and 3 dimensions; genetics applications.
Note: This course will not satisfy the Mathematics requirements for any Program in Computer and Mathematical Sciences, nor will it normally serve as a prerequisite for further courses in Mathematics. Students who are not sure which Calculus II course they should choose are encouraged to consult with the supervisor(s) of Programs in their area(s) of interest.
Prerequisite: MATA30H3

MATA36H3 Calculus II for Physical Sciences
This course is intended to prepare students for the physical sciences. Topics to be covered include: Newton's method; approximation of functions by Taylor polynomials, numerical methods of integration, complex numbers, sequences, series, Taylor series, differential equations.
Prerequisite: MATA30H3

MATA37H3 Calculus II for Mathematical Sciences
A calculus course providing a conceptual approach for students needing more than techniques and applications. An introduction to proof and the theoretical side of basic calculus emphasizing intuition. Fundamental Theorem of Calculus, Taylor's Theorem, sequences and series, power series and differential equations.
Prerequisite: MATA30H3

MATB24H3 Linear Algebra II
Fields, vector spaces over a field, linear transformations; diagonalizability, invariant subspaces, Cayley-Hamilton theorem; hermitian inner product, normal, self-adjoint and unitary operators, method of least squares, introduction to coding theory.
Exclusion: MAT224H
Prerequisite: MATA23H or MAT223H
MAT854H3 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. Exclusion: MAT232H, MAT235Y, MAT237Y, MAT257Y
Prerequisite: MAT238H or MAT239H & [(MAT240H or MAT336H) or MAT337Y or MAT357Y]]

MAT854H3 Techniques of the Calculus of Several Variables II
Fourier series, Vector fields in R^3, 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. Exclusion: MAT235Y, MAT237Y, MAT257Y, MAT268H
Prerequisite: MAT854H

MAT863H3 Introduction to Analysis
Calculation revisited rigorously: properties of real numbers, limits, compactness, topology of Euclidean space, continuity, differentiability, fundamental theorem, Riemann integral. Exclusion: MAT240Y
Prerequisite: [MATA37H or MAT137Y] & MAT854H
Corequisite: MAT842H

MAT864H3 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. Exclusion: MAT244H, MAT267H
Prerequisite: [MAT368H or MAT347H] & MAT232H
Corerequisite: MAT854H & MAT842H

MAT866H3 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. Exclusion: APM265H
Prerequisite: MAT232H
Corequisite: MAT842H

MAT853H3 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. Cayley's and Lagrange's theorems. Normal subgroups, quotient groups. Emphasis on examples and calculations.
Exclusion: MAT390H, MAT347Y
Prerequisite: MAT238H & [MAT240H or MAT224H]

MAT852H3 Fields and Groups
Abstract group theory: Sylow theorems, groups of small order, simple groups, classification of finite abelian groups. Field and Galois theory: polynomials over a field, field extensions, constructibility. Galois groups of polynomials, in particular cubic: insolvability of quintics by radicals. Exclusion: MAT362H, MAT347Y
Prerequisite: MAT851H

MAT859H5 Introduction to Mathematical Logic
Predicate calculus, relationship between truth and provability; Godel's completeness theorem. First order arithmetic as an example of a first-order system. Godel's incompleteness theorem; outline of its proof. Introduction to recursive functions. Exclusion: MAT309H, CSC443H
Prerequisite: MAT824H & [MAT434H or CSC336H]

MAT851H3 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 of representation of numbers as sums of squares. Exclusion: MAT315H
Prerequisite: MAT836H or MAT375H & MAT824H

MAT856H3 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. Need for mathematical results from number theory, finite fields, and complexity theory are stated. Exclusion: MAT824H & STAB52H
Prerequisite: MAT854H
Corequisite: MAT851H

MAT852H3 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. Exclusion: MAT402H, MAT365H
Prerequisite: MAT232H
Corequisite: MAT851H

MAT852H3 Introduction to Topology
Fundamentals of set theory, topological spaces and continuous functions, connectedness, compactness, countability, separability, metric spaces and normed spaces, function spaces, completeness, homotopy. Exclusion: MAT327H
Prerequisite: MAT824H & MAT843H

MAT852H3 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, task force scheduling, traveling salesmen, tournament scheduling, experimental design and finite geometries. Prerequisite: [MAT824H or CSC336H] & at least one other B-level course in Mathematics or Computer Science.
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.
Exclusion: MAT33H4
Prerequisite: MATB42H

MATC35H3 Chaos, Fractals and Dynamics
Topics covered include: metric spaces, dynamical systems on the real line, fixed points, periodic points, attractors, repellors, Sharkovskii's theorem parametrized families of functions and bifurcations, period doubling, dynamics of the logistic map, symbolic dynamics, chaos, topological equivalence of the logistic map and the shift map, Newton's method; dynamics on the complex line, iterations of rational functions, Julia sets, Mandelbrot set.
Exclusion: MAT33H4
Prerequisite: MATB43H

MATC37H3 Introduction to Real Analysis
Prerequisite: MATB43H

MATC44H3 Introduction to Combinatorics
Basic counting principles, generating functions, permutations with restrictions. Fundamentals of graph theory with algorithmic applications (including network flows). Combinatorial structures including block designs and finite geometries.
Exclusion: MAT34H4
Prerequisite: MATB24H

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. Exclusion: APMB44H
Prerequisite: MATB44H & MATB24H
Corequisite: MATB42H

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: MATB44H

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.
Exclusion: MAT36H3
Prerequisite: MATB43H

MATC65H3 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.
Exclusion: MAT54H
Prerequisite: MATC34H

MATC280H 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.
Exclusion: MAT32H
Prerequisite: [MAT23H & MATA27H] or [MAT23H & MATA26H] & [ESCA65H or MATB24H]

MATC90H3 Beginnings of Mathematics
Mathematical problems which have arisen repeatedly in different cultures, e.g. solutions of quadratic equations, Pythagorean theorem; tradition of mathematics between civilizations; high points of ancient mathematics, e.g. study of incommensurability in Greece, Pell's equation in India.
Exclusion: MAT390H
Prerequisite: One Grade 12 Mathematics course & 5.0 full university courses

MATC10H3

MATD11H3

MATD12H3 Topics in Mathematics
A variety of topics from geometry, analysis, combinatorics, number theory and algebra, to be chosen by the instructor. Prerequisite: MATC01H & [MATC35H or MATC37H] & [MATC15H or (MATD21H)]

MATD13H3 Introduction to Industrial Mathematics
Monte Carlo Method (mean time between failures, servicing requests), Data Manipulation (r-transform, filters, Bode Plots), Discrete Fourier Transform (real time processing, FFT, image processing), Regression (best fit in discrete data, Hilbert Space, Gram's theorem), Frequency-Domain Methods, Numerical Models for PDE, Galerkin's method, Cubic Splines.
The course provides extensions of mathematics useful in industrial problems, interweaving analytic and computing methods during problem solving.
Prerequisite: MATB42H & MATB44H & STA852H
Recommended preparation: MATB61H & MATC46H

MATD49H3 Readings in Mathematics
Independent study under direction of a faculty member.
Prerequisite: MATC01H & [MATC35H or MATC37H] & [MATC15H or (MATD21H)]
Media Studies

(B.A.)

Faculty List
G. Leonard, M.A., Ph.D. (Florida), Professor
R. Bai, B.A., M.A. (Beijing Foreign Studies University), Ph.D. (Illinois), Assistant Professor
M. Mahtani, B.A. (Dalhousie), Ph.D. (London), Assistant Professor
A. Towers, M.A., Ph.D. (Cornell), Assistant Professor
K. McLeod, M.A. (McMaster), Ph.D. (McGill), Assistant Professor
K. McCreight, M.A., Ph.D. (Toronto), Senior Lecturer
S.L. Helwig, B.A. (Queen's), M.A. (Toronto), Lecturer
D. Hlynsky, B.F.A. (Ohio State), Lecturer
M. Perl, M.A., Ph.D. (Colombia), Lecturer
E. Webster, B.A., M.A. (Toronto), Ph.D. (Case Western Reserve), Lecturer

Program Director: R. Bai (416-287-7154) Email: rbai@tsc.utoronto.ca

The Media Studies program is an innovative, interdisciplinary Major's program that combines media theories with critical practices in culture and journalism. It is engaged with the creative analysis, production, and research into traditional and emerging forms of media. Students in the media studies program explore the origins, structures and implications of contemporary media in light of general concerns about technology, culture, society and politics. As part of the Department of Humanities, it is committed to stimulating fruitful conversations with other disciplines and considers how media shapes knowledge from philosophical, historical, literary, and artistic perspectives.

In their first year in the program, all majors in Media Studies must choose one of the following streams: Critical Journalism, Cinema and Visual Culture, and New Media.

The Critical Journalism stream is offered to students who are interested in issues concerning news media, journalism, and democracy. This stream does not provide systematic practical training that qualifies one as a journalist. Students who want to pursue a professional career in journalism after graduation should consider applying for the UTSC Centennial Journalism Specialist Joint Program, which is listed in a separate section in the calendar.

The Cinema and Visual Culture stream is designed for students who are interested in the study of contemporary cinema. As the field of cinema studies is moving towards increasing engagement with digitized delivery techniques as well as relevant media forms such as television and video games, this stream prepares students for the emerging trends in the field.

The New Media stream is for students who are intrigued by issues such as cultural, social and political implications of new media as well as the impact of digital technology on traditional media, and for students who are keen to explore the implications of digital media for artistic and humanistic expressions. It is important to note that this stream has a predominant pedagogical focus on theoretical issues. Students who hope to be well versed in the application of digital media technologies such as interface design should seriously consider applying for the UTSC Centennial New Media Joint Program, which offers a four year Bachelor's degree and a certificate in New Media Design from Centennial College. The Joint Program is listed in a separate section in the calendar.

Regardless of stream, all students are required to take two Adlib foundation courses: MDSA01H "Introduction to Media Studies" and MDSA02H "From Print to Digital: History of Media and Technology". Students learn the key concepts and terms in media studies and the history of media from printing press to film, radio, television, and the internet. In their fourth year, all students will take a D level seminar core course. These courses provide space for students of all streams to come together and explore issues concerning the media in a collective manner.

Guidelines for 1st year course selection
Students who intend to complete a Media Studies program should include MDSA01H & MDSA02H in their 1st year course selection. Students are also strongly encouraged to take HUMA01H (Exploring Key Questions in Humanities) as early as possible in their studies.

MAJOR PROGRAM IN MEDIA STUDIES

Program Supervisor: Ruyun Bai Email: med-program-supervisor@tsc.utoronto.ca

The Media Studies program is an innovative, interdisciplinary Major program that combines media theories with critical practices in culture and journalism. It is engaged with the creative analysis, production, and research into traditional and emerging forms of media. Students in the media studies program explore the origins, structures and implications of contemporary media in light of general concerns about technology, culture, society and politics. As part of the Department of Humanities, it is committed to stimulating fruitful conversations with other disciplines and considers how media shapes knowledge from philosophical, historical, literary, and artistic perspectives.

In their first year in the program, all majors in Media Studies must choose one of the following streams: Critical Journalism, Cinema and Visual Culture, or New Media.

MAJOR PROGRAM IN MEDIA STUDIES

Program Supervisor: Ruyun Bai Email: med-program-supervisor@tsc.utoronto.ca

The Media Studies program is an innovative, interdisciplinary Major program that combines media theories with critical practices in culture and journalism. It is engaged with the creative analysis, production, and research into traditional and emerging forms of media. Students in the media studies program explore the origins, structures and implications of contemporary media in light of general concerns about technology, culture, society and politics. As part of the Department of Humanities, it is committed to stimulating fruitful conversations with other disciplines and considers how media shapes knowledge from philosophical, historical, literary, and artistic perspectives.

In their first year in the program, all majors in Media Studies must choose one of the following streams: Critical Journalism, Cinema and Visual Culture, or New Media.

- The stream of Critical Journalism is offered to students who are interested in issues concerning news media, journalism, and democracy. This stream does not provide systematic practical training that qualifies one as a journalist. Students who want to pursue a professional career in journalism after graduation should consider applying for the UTSC-Centennial Journalism Specialist Joint Program, which is listed in a separate section in the Calendar.
The stream of Cinema and Visual Culture is designed for students who are interested in the study of contemporary cinema. As the field of cinema studies is moving towards increasing engagement with digitalized delivery techniques as well as relevant media forms such as television and videogames, this stream prepares students for the emerging trends in the field.

The stream of New Media is for students who are intrigued by issues such as cultural, social and political implications of new media as well as the impact of digital technology on traditional media, and for students who are keen to explore the implications of digital media for artistic and humanistic expressions. It is important to note that this stream has a predominant pedagogical focus on theoretical issues. Students who hope to be well-versed in the application of digital media technologies such as interface design should seriously consider applying for the UTSC- Centennial New Media Joint Program, which offers a four-year BA degree and a certificate in New Media Design from Centennial College. The Joint Program is listed in a separate section in the Calendar.

Regardless of stream, all students are required to take two A-level foundation courses: MDSA01H “Introduction to Media Studies” and MDSA02H “From Print to Digital: History of Media and Technology.” Students learn the key concepts and terms in media studies and the history of media from printing press to film, radio, television, and the Internet. In their fourth year, all students will take a D-level seminar core course. These courses provide space for students of all streams to come together and explore issues concerning the media in a collective manner.

Program Requirements
Students must complete 8.0 full credits, including at least 1.0 credit at the D-level, as follows:
1. 1.0 credit must come from:
   MDSA01H Introduction to Media Studies
   MDSA02H From Print to Digital: History of Media and Technology (1450-Present)
2. At least 0.5 credit must be from the following theory/methodology courses:
   MDS011H Theories and Methods in Media Studies
   SOCS051H Sociology of Culture
   VPAB051H Introduction to Contemporary Cultural Theory
3. At least 0.5 credit must be from the following media and digital technologies courses:
   MDSB241H Journalism in the Age of New Media
   MDSB261H Digital Media and Cyber-space
   MDSB262H Design in Visual Culture
   MDSB361H Legal and Ethical Issues in New Media
   VPAB861H Visual and Performing Arts in the Digital Age
4. 2.0 credits must be from the Media Studies core courses below, of which at least 0.5 credit should be from the C level and at least 0.5 credit should be from the D level:
   Below:
   MDSB202H Language and Media
   MDSB333H Advertising and Consumer Culture
   MDSB341H Ethical Issues in Media Studies
   MDSB525L Media Ownership and Journalism
   MDSB264H Covering Immigration
   MDSB271H Critical Journalism
   ENGB701H Introduction to Cinema
   ENGB751H Cinema and Modernity I
   ENGB761H Cinema and Modernity II
   ISSTB151 International Studies and International Communications
   VPAB868H Art and the Everyday: Mass Culture and the Visual Arts
   WSTR131H Women and Media
   C-level:
   MDSB202H Topics in Media and Politics
   MDSB341H Media and Globalization
   MDSB373H Gender, Race and Ethnicity in Advertising
   MDSB380H Old Media, New Film and New Technology
   ENGC771H The Body in Contemporary Culture: Theories and Representations
   GASC411H Media and Popular Culture in East and Southeast Asia
   GASC421H Film and Popular Culture in South Asia
   GASC481H Chinese Media and Politics
   IDSCL121H Media and Development
   SOCC481H Media and Society
   D-level:
   MDSB310H Senior Seminar: Topics in Digital Media and Arts
   MDSB320H Senior Seminar: Topics in Digital Media and Society
In addition to the 4.0 credits from the MDS core, 4 full credits must come from the student’s chosen stream. Below is a list of stream-specific courses:

**Critical Journalism:**
- MDSA21H Introduction to Journalism I
- MDSA22H Introduction to Journalism II
- MDSB03H Language and Media (if not used in Requirement 4)
- MDSB04H Ethical Issues in Media Studies (if not used in Requirement 4)
- MDSB24H Journalism in the Age of New Media (if not used in Requirement 3)
- MDSB25H Media Ownership and Journalism (if not used in Requirement 4)
- MDSB26H Covering Immigration (if not used in Requirement 4)
- MDSB27H Critical Journalism (if not used in Requirement 4)
- MDSB39H Fundamentals of Journalistic Writing
- MDCS02H Topics in Media and Politics (if not used in Requirement 4)
- SOCC44H Media and Society (if not used in Requirement 4)

**Cinema and Visual Culture**
- CLA202H The Classical World in Film
- ENGC62H Creative Writing: Scripts and Dramas
- ENGC65H Literature and Media: From Page to Screen
- ENGC78H Dystopian Visions in Fiction and Film
- ENGC82H Cinema Studies: Themes and Theories
- ENGC83H The Imperial Imaginary in Cinema
- ENGD91H Avant-Garde Cinema
- ENGD92H The Film Musical
- ENGD93H Cinema and Spectatorship
- ENGD94H Stranger Than Fiction: The Documentary Film
- FRLB70H Cinema of the Francophone World
- HSIE11H History on Film
- PHLC30H Topics in the Philosophy of Art
- VPAAC10H Introduction to Arts Management
- VPH446H Ways of Seeing: Introduction to Art Histories
- VPH370H Topics in Global Visual Culture
- VPH355H Modern Art and Culture
- VPCG45H Seminar in Twentieth Century Art
- VPMI67H Film Music
- WSTC16H Criminal Women: Gender, Justice and the Media

**New Media**
- The following courses are required of students in the New Media stream:
  - MDSB46H Digital Media and Cyberpace (if not used in Requirement 3)
  - MDSB62H Design in Visual Culture (if not used in Requirement 3)
- MDSB63H Legal and Ethical Issues in New Media (if not used in Requirement 3)

The additional credits must come from:
- MDSB24H Journalism in the Age of New Media (if not used in Requirement 3)
- MDCS08H Old Media, New: Film and New Technology (if not used in Requirement 4)
- VPAA60H Visual and Performing Arts in the Digital Age (if not used in Requirement 3)
- VPSA02H Foundation Studies in Studio
- VPSA03H But Why is it Art?
- VPSA72H Introduction to Photography
- VPSA74H Introduction to Digital Studio Practice
- VPSA73H Introduction to Video
- VPSA75H Photo-based Work
- VPSA76H Intermediate Video
- VPSA80H Digital Studio Practice
- VPSA82H Introduction to Web-based work
- VPSA81H Advanced Photo Concepts
- VPCG691H Advanced Video
- VPCG611H Performing with Camera
- VPCS661H Theory and Practice: Two-Dimensional Work
- VPCS681H Theory and Practice: Time-Based Media
- VPCS701H Theory and Practice: New Media
MDS401H1 Introduction to New Media in the Humanities and Social Sciences
Introduces students to the variety of ways new media are used by scholars to enable new modes of enquiry, knowledge representation, and learning. Explores how digital media are used to enhance creative communications and new forms of knowledge representation in a variety of contexts and disciplines.
Exclusion: (NMEA208H)

MDS402H3 From Print to Digital: History of Media and Technology (1480 - Present)
This course surveys the history of media and communication technologies and how such technologies exert impact on human societies. It covers the development of the printing press, telegraph, radio, film, television, and the digital revolution.

MDS421H1 Introduction to Journalism I
An introduction to the social, historical, philosophical, and practical contexts of the media. The course will examine various types of media and the role of the journalist. Students will be introduced to story forms and journalistic skills. Media coverage of current issues will be discussed.
Preference will be given to Journalism and Media Studies students.
Exclusion: (JOUA01H)

MDS422H3 Introduction to Journalism II
A continuation of MDS421H. Preference will be given to Journalism and Media Studies students.
Exclusion: (JOUA02H)
Prerequisite: MDS421H or (JOUA01H)

MDSB202H3 Language and Media
A study of the relationship between language and media. The course examines language as a social phenomenon, in particular the ways in which media represent language-related issues and how media's use of language affects people's notions of what acceptable language use is and ought to be.
Prerequisite: ([MDSA01H or (NMEA208H)] & MDSA02H) or [MDSA21H or (JOUA01H)] & [MDSA22H or (JOUA01H)]

MDSB303H1 Advertising and Consumer Culture
This course is an introduction to the study of advertising as social communication. The key objective of the course is to provide a historical perspective on advertising's role in the emergence and perpetuation of 'consumer culture'. The course will examine strategies historically 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: MDS401H or (NMEA208H)

MDSB404H3 Ethical Issues in Media Studies
This course introduces students to moral and ethical issues related to the mass media. Using a decision-making framework, students will analyze actual cases that present ethical dilemmas in traditional and non-traditional news, advertising, and entertainment media (such as print, broadcast, and the Internet).
Prerequisite: [MDSA01H or (NMEA208H)] or [MDSA21H or (JOUA01H)] & [MDSA22H or (JOUA01H)]

MDSB505H3 Media and Globalization
This course introduces students to the variety of ways cultural and social theorists have addressed notions of "globalization" and the media, and to focus our eyes and research concerns on media systems and practices in the non-western world: Asian, Latin American, and Arabic countries.
Exclusion: (HUMB7H)

MDSB244H3 Journalism in the Age of New Media
Journalism is undergoing a revolutionary change. Old trusted formats are falling away and young people are consuming, producing, exchanging, and absorbing news in a different way. The course will help students critically analyze new media models and give them the road map they will need to negotiate and work in New Media.
Preference will be given to Journalism and Media Studies students.
Prerequisite: [MDSA21H or (JOUA01H)] & [MDSA22H or (JOUA01H)] or [MDSA01H or (NMEA208H)]

MDSB255H3 Media Ownership and Journalism
This course examines how the political economy of news organizations shapes the process of news gathering, editing and publishing. It critically examines the implications of hyper-commercialization of media for journalism, and assesses the future of the newspaper industry.
Prerequisite: [MDSA01H or (NMEA208H)] or [MDSA21H or (JOUA01H)] & [MDSA22H or (JOUA01H)]

MDSB266H3 Covering Immigration
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. Preference will be given to Journalism and Media Studies students.
Exclusion: (JOUA01H)
Prerequisite: 4.0 credits including HUMA01H & ([MDSA21H or (JOUA01H)] & [MDSA22H or (JOUA01H)]) & MDSB27H
MDSC27H3 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.
Preference will be given to Journalism and Media Studies students.
Exclusion: (JOUB2H3) Prequisite: 4.0 credits including [UMA01H & (MDSA21H or JOUA01H)] & [MDSA22H or JOUA02H] & [MDSB06H or JOUB01H].

MDSC39H3 Fundamentals of Journalistic Writing
An overview of the standard roles 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. Preference will be given to Journalism and Media Studies students.
Prequisite: [MDSA21H or (JOUA01H)] & [MDSA22H or JOUA02H] & [UMA01H]. (Note: UMA01H will be waived in 2009 Fall.)

MDSC81H3 Digital Media and Cyberspace
This course introduces students to the key concepts and terms in digital media studies as well as approaches to digital media criticism.
Prequisite: MDSB02H1

MDSC85H3 Design in Visual Culture
How do contemporary cultural workers engage the potential of emerging design technologies? CAD, digital networks, robotics, space age materials, exotic industrial processes, bioengineering and countless other technologies are changing design practices, styles and content. This course offers a conceptual framework for investigating the cultural impact of these new media.
Limited enrolment: 50
Exclusion: (NMEB20H1)
Prequisite: MDSB01H1 or (NMEA2H1)

MDSC91H3 Theories and Methods in Media Studies
This is an advanced seminar on theories and methodologies applied to the study of media. Topics vary. Limited enrolment: 30
Prequisite: Any 5.0 credits including [MDSA01H or (NMEA20H1)] & [MDSA20H1]

MDSC29H3 Topics in Media and Politics
This course deals with one or more topics in media and politics, with a view to exploring the interlocked relationship of modern media (including mass media and interactive media) and political life (parties, politicians, political campaigns, political scandals, democratization, etc.). Limited enrolment: 35
Prequisite: Any 5.0 credits including [MDSA01H or (NMEA20H1)] or [MDSA21H or JOUA01H]) & [MDSA22H or (JOUA02H)]

MDSC07H3 Gender, Race and Ethnicity in Advertising
This course will look into the role of advertising in reflecting or moulding society's perception of women/minority groups. A historical approach will be used to explore how the women/minority groups have been portrayed in advertising. In the process, topics such as gender roles, sexuality, and racism will be discussed.
Limited enrolment: 50
Prequisite: Any 5.0 credits including [MDSA01H or (NMEA2H1)]

MDSC39H3 Legal and Ethical Issues in New Media Studies
This course is designed to be an in-depth exploration of ethical issues in the areas of journalism, advertising, and entertainment in the digital media environment. The case study approach will be used so students can apply the ethical decision-making framework introduced in the course 'Media Ethics' to examine ethical issues such as truth, accuracy, privacy, copyright infringement, and persuasion. Limited enrolment: 35
Prequisite: Any 5.0 credits including [MDSA01H or (NMEA20H1)] or [MDSB01H1]

MDSC64H3 Old Media, New Film and New Technology
From the first depiction of a cyborg in Metropolis (1927) to the Web-based surveillance devices of Minority Report (2002), film is central to organizing cultural discourse around new media and technology. This course examines how the popularization of both real and imagined technologies in various films contributes to cultural attitudes that attend the introduction and social diffusion of new technologies.
Limited enrolment: 35
Prequisite: Any 5.0 credits including MDSB02H1

MDSD01H3 Senior Seminar: Topics in Digital Media and Arts
This is a senior seminar that focuses on digital media and arts. Through research of studio projects, students will explore how artists use the potentials offered by digital technologies to create new ways of expression. Limited enrolment: 15
Prequisite: Any 11 credits including [MDSA01H or (NMEA2H1)] & [MDSA20H1] or [MDSA21H or (JOUA01H)] & [MDSA22H or (JOUA02H)]

MDSD02H3 Senior Seminar: Topics in Digital Media and Society
This is a senior seminar that focuses on digital media and society. It explores social and political implications of digital media and how social forces shape the development of new media. Topics vary. Limited enrolment: 15
Prequisite: Any 11 credits including [MDSA01H or (NMEA20H1)] & [MDSA20H1] or [MDSA21H or (JOUA01H)] & [MDSA22H or (JOUA02H)]

MDSD03H3 Senior Seminar: Issues in Contemporary Media, Representation, and Culture
This is a senior seminar that explores issues and questions concerning media, representation and culture. Topics vary. Limited enrolment: 15
Prequisite: Any 11 credits including [MDSA01H or (NMEA20H1) & MDSB01H1 or (MDSA21H or JOUA01H)] & [MDSA22H or (JOUA02H)]]
Music

See the Visual and Performing Arts section of this Calendar.

Neuroscience

(B.Sc.)

Faculty List

J.W. Grud, B.A. (Mount Allison), Ph.D. (McGill), Professor Emeritus
R. Boozat, B.Sc. (Calgary), Ph.D. (British Columbia), Professor
E.R. Brown, B.Sc. (Columbia), Ph.D. (Texas), Professor
G.O. Irav, B.A. (Drew), Ph.D. (California), Professor
N.W. Milgram, B.A. (UCLA), M.A., Ph.D. (McGill), Professor
T.L. Peit, B.Sc., M.A. (Louisiana), Ph.D. (Florida), Professor
G.S. Cwe, B.A., M.A., Ph.D. (Western), Associate Professor
S. Jer, B.Sc. (Wolfe Laeuer), M.A., Ph.D. (Concordia), Associate Professor
A.C. Mason, B.Sc. (Geidel), M.Sc., Ph.D. (Toronto), Associate Professor
M. Niemeyer, M.A. (Hamburg), Ph.D. (Tubingen), Associate Professor
S.G. Reid, B.Sc., Ph.D. (Ottawa), Associate Professor
K.K. Zakrin, B.A., M.A., Ph.D. (York), Associate Professor
M. M. Aerts, B.Sc., M.Sc. (Western), Ph.D. (McGill), Assistant Professor
D.W. Haly, B.A. (Amphola), M.A. (San Francisco), Ph.D. (Albuquerque), Assistant Professor
M. Joffe, B.Sc. (McGill), M.Sc., Ph.D. (Brown), Assistant Professor
J.E. Nash, B.Sc. (Abderda), M.Sc., Ph.D. (Manchester), Assistant Professor
D. Nowbourn, B.A., M.A. (York), Ph.D. (Waterloo), Assistant Professor
J.C. LeBoutillier, B.Sc., M.A., Ph.D. (Toronto), Senior Lecturer

Associate Chair & Program Supervisor: J. LeBoutillier Email: neuroscience-program-supervisor@utsc.utoronto.ca

Course Support & Program Advisor: Hamid Kayzali Email: kayzali@utsc.utoronto.ca

Neuroscience encompasses aspects of a variety of disciplines that have the common goal of understanding how the nervous system works. Techniques from constituent disciplines like anatomy, biochemistry, molecular biology, pharmacology, physiology, psychology and zoology are used to unravel some of the mysteries of the brain and its mechanisms of action. Investigators in Neuroscience have also made fundamental contributions to clinical aspects of neurodysfunction and behaviour.

The Major Program is intended for students who wish to continue their studies of Neuroscience with other areas of interest. The Specialist Program is designed for students who have a particular interest in the Neurosciences and wish to focus their studies in this area. The Specialist (Co-operative) Program provides the student with a broad background in neuroscience, with intensive lab experience and practical experience in real job settings.

In 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 Supervisor of Studies, in writing on an official form obtained from the Department of Psychology's website (www.psyc.utoronto.ca/psych/undergraduate).

Admission to Neuroscience Programs

The Specialist and Major programs in Neuroscience have enrolment limits. Every year students will be admitted to the Specialist Programs in Neuroscience including Co-operative studies and the major program in NRO. Entry into these programs can be gained as follows:

1. Direct entry: Students may be admitted directly from high school, on the basis of academic performance and must have completed Grade 12 math, chemistry and biology. Students will be required to have a cumulative GPA of 2.5 or higher at the end of 1st year (i.e. at the end of the session in which they complete their 4th credit) to remain in the specialist program. Students whose cumulative GPA at the end of 1st year is between 2.0 and 2.49 may transfer to the major program.

2. Admission after first year: Students may apply to the program after completing a minimum of 4.0 credits including 1 credit in biology, chemistry and psychology. Admission will be based on cumulative GPA with 2.8 or higher guaranteeing admission to the Specialist program and 2.0 to the Major program. Students with lower GPAs will be considered to the extent that laboratory spaces are available for both programs. The minimum GPA used to admit these students will be determined in May (after the Winter session) and August (after the Summer session). Application for admission will be made to the Registrar through ROSI, in April/May and July/August.
Neuroscience courses
Priority access to Neuroscience courses will be given to Major and Specialista in Neuroscience programs and other programs requiring these courses. During the first two weeks of Fall/Winter registration, the courses will be restricted to these students. Provided space is available, the courses will be opened to other students in the third week.

First-Year Students in Neuroscience
BOY A01H, BOY A02H, CHMA 10H, CHMA 11H, PSY A01H and PSY A02H are recommended in the first year if you are intending to pursue a Specialist or Major Program in Neuroscience.

Science Engagement Courses
For science experiential learning through community outreach (SCIB01H), classroom in-reach (SCIB02H) and team research, please see the Science Engagement section of this Calendar.

SPECIALIST PROGRAM IN NEUROSCIENCE
Associate Chair & Program Supervisor: J. LeBoutilier Email: neuroscience-program-supervisor@utsc.utoronto.ca
Course Support & Program Advisor: Hann Kayali Email: kayali@utsc.utoronto.ca

Program Requirements
The Program requires completion of 13.5 credits:

1. The following 3.0 credits:
   - BOY A01H Introduction to Biology: Part I
   - BOY A02H Introduction to Biology: Part II
   - CHMA 10H Introduction to Chemistry I: Structure and Bonding
   - CHMA 11H Introduction to Chemistry II: Reactions and Mechanisms
   - PSY A01H Introduction to Psychology: Part I
   - PSY A02H Introduction to Psychology: Part II

2. The following 4.5 credits:
   - BOY B10H Cell Biology
   - BOY B11H Molecular Aspects of Cellular and Genetic Processes
   - BOY B20H Mammalian Physiology I
   - BOY B32H Animal Physiology Laboratory
   - CHMB 41H Organic Chemistry I
   - CHMB 42H Organic Chemistry II
   - NROB 60H Neuroscience I: Cell Anatomy and Physiology
   - PSY B07H Data Analysis in Psychology (STA B22H may not be used to fulfill this requirement)
   - PSY B65H Human Brain & Behavior

3. The following 3.5 credits:
   - BOY C12H Biochemistry I: Proteins & Enzymes
   - BOY C13H Biochemistry II: Bioenergetics & Metabolism
   - NROC 340H Neuroethology (Invertebrate Neurobiology)
   - NROC 361H Neuroscience II: Learning & Motivation
   - NROC 631H Neuroscience Laboratory
   - NROC 640H Neuroscience III: Sensory & Motor Systems
   - PSYC 081H Advanced Data Analysis in Psychology

4. The following 0.5 credits from the following: (Supervised Study or Thesis courses can be used to fulfill a maximum of 0.5 credit in this category.)
   - BOY C21H Vertebrate Histology: Cells & Tissues
   - BOY D16H Topics in Cellular and Molecular Neurobiology
   - BOY D27H Molecular Endocrinology
   - BOY D48H Animal Communication
   - BOY D55B Pathologies of the Nervous System
   - NROC 351H Developmental Neurobiology
   - NROC 369H Syaptic Organization of the Brain
   - NROC 5011 Supervised Study in Neuroscience
   - NROC 931H Supervised Study in Neuroscience
   - NRD 050H Current Topics in Neuroscience
   - NRD 061H Advanced Neuroscience Laboratory
   - NRD 070H Psychology of Aging
   - NRD 150Y Thesis in Neuroscience
   - PSYC 231H Developmental Psychobiology
   - PSYC 31H Clinical Neuropsychology
   - PSYC 281H Drugs and the Brain
PSYD37H Social Neuroscience
PSYD33H Current Topics in Abnormal Psychology

5. 1.0 credit from the courses listed by the Departments of Humanities, Management or Social Sciences.

Note: Although not required, PHYA10H or PHYA11H (Introduction to Physics I A or IB) is recommended.

SPECIALIST (CO-OPERATIVE) PROGRAM IN NEUROSCIENCE

Associate Chair & Program Supervisor: J. Lebovits
Email: lebovits@utsc.utoronto.ca

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

The Neuroscience Co-operative program is designed to provide the student with a broad education in neuroscience, including neuroanatomy, neurophysiology, behaviour, psychology, biochemistry, cell and molecular biology and data analysis through lectures, lecture/lab and intensive laboratory courses.

The program combines academic studies in the field of neuroscience with practical work experience in settings in which scientific knowledge from various subfields in the discipline is applied. Students may apply for work term employment in settings such as research and development departments in industry, educational institutions, health care institutions and government agencies.

The work experience provided by the program enables students to explore career opportunities that may be pursued following the Bachelor's degree. Work settings may also provide students with the opportunity to observe neuroscientists interacting with other professionals, hence providing a broader and more informed basis for the selection of a post-graduate program appropriate to the student's talents and interests. Some work settings will provide the opportunity for participation in applied research.

For information on admissions, fees, work terms and standing in the program, please see Co-operative Programs section of this Calendar.

Program Admission

Enrolment in the program is limited.

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

Current U of T Scarborough students: Application procedures can be found at the Registrar's Office website at: www.utsc.utoronto.ca/undergrad. The minimum qualifications for entry are 4.0 credits including BGYA01H, BGYA02H, CHMA10H, CHMA11H, PSYA01H & PSYA02H plus a cumulative GPA of at least 2.75.

Program Requirements

Work Terms

The program requires eight four-month terms of study and two four-month work terms over a four year period. To be eligible for their first work term, students must have completed at least 10.0 credits including: BGYB10H, BGYB11H, BGYB12H, BGYB30H, CHMB41H, CHMB42H, NROB60H, NROC61H or NROC64H and the non-credit Arts & Science Co-op Work Term Preparation course.

To be eligible for their second work term, students must have completed at least 12.5 full credits and have received satisfactory evaluation for their performance and for their report on their first work term.

Course Requirements

The program requires the completion of 14.5 credits including the 13.5 credits as specified in the Specialist Program in Neuroscience, plus the following:

1. BGYB12H Cell and Molecular Biology Laboratory
2. BGYC23H Practical Approaches to Biochemistry
3. The Arts & Science Co-op Work Term Preparation course
MAJOR PROGRAM IN NEUROSCIENCE

Associate Chair & Program Supervisor: J. Lehoullier Email: neuroscience-program-supervisor@utoronto.ca
Course Support & Program Advisor: Hanan Kayyali Email: kayyali@utoronto.ca

Program Requirements
The Program requires seven full credits. Students who wish to combine the Major Program in Neuroscience with the Major in Integrative Biology or the Major in Mental Health Studies or the Major in Psychology are advised that they must present 12.0 distinct credits to receive certification of the completion of both programs. Consultation with the respective Program Supervisors in the selection of credits is recommended.

The following indicates the required credits for the Major Program in Neuroscience:

1. The following 3.0 credits:
   - BGYA01H1 Introductory Biology: Part I
   - BGYA02H1 Introductory Biology: Part II
   - CHMA10H1 Introductory Chemistry I: Structure and Bonding
   - CHMA11H1 Introductory Chemistry II: Reactions and Mechanisms
   - PSYA10H1 Introductory Psychology: Part I
   - PSYA20H1 Introductory Psychology: Part II

2. The following 1.5 credits:
   - NROB60H1 Neuroscience I: Cell Anatomy & Physiology
   - NROC61H1 Neuroscience II: Learning and Motivation
   - NROC64H1 Neuroscience III: Sensory and Motor Systems

3. 2.0 credits from the following:
   - BGYB10H1 Cell Biology
   - BGYB11H1 Molecular Aspects of Cellular and Genetic Processes
   - BGYB35H1 Mammalian Physiology I
   - BGYB33H1 Animal Physiology Laboratory
   - STA222H1 Statistics I
   - PSYB07H1 Data Analysis in Psychology
   - PSYB65H1 Human Brain and Behaviour

4. 0.5 credit from the following:
   - BGYC21H1 Vertebrate Histology: Cells and Tissues
   - BGYD10H1 Topics in Cellular and Molecular Neurobiology
   - BGYD27H1 Molecular Endocrinology
   - BGYD45H1 Animal Communication
   - BODT65H1 Pathologies of the Nervous System
   - NROC34H1 Neuroanatomy (Invertebrate Neurobiology)
   - NROC35H1 Developmental Neurobiology
   - NROC36H1 Neuroscience Laboratory
   - NROC39H1 Synaptic Organization of the Brain
   - NROC38H1 Supervised Study in Neuroscience
   - NROC39H1 Supervised Study in Neuroscience
   - NROC50H1 Current Topics in Neuroscience
   - NROC63H1 Advanced Neuroscience Laboratory
   - NROC67H1 Psychology of Aging
   - NROC98Y1 Thesis in Neuroscience
   - PSYC23H1 Developmental Psychology
   - PSYC31H1 Clinical Neuropsychology
   - PSYC62H1 Drugs and the Brain
   - PSYD37H1 Social Neuroscience
   - PSYD33H1 Current Topics in Abnormal Psychology

NROB60H1 Neuroscience I: Cell Anatomy and Physiology
Overview of the structure and function of the nervous system.
Topics include neuroanatomy, structure and function of neurons and glia, neurochemistry, neural mechanisms of communication at the cellular and molecular levels, and intracellular signal transduction in neurons.
Exclusion: PSY290H1, PSY391H1, ZOO332H

Prerequisite: BGYA01H1 & BGYA02H1 & PSYA10H1 & PSYA20H1
Note: CHMA10H1 & CHMA11H1 are strongly recommended for students with no Chemistry background.
NROC340H1 Neuroethology
Neural basis of mental behaviour; integrative function of the nervous system; motor and memory systems; mechanisms of decision-making, initiating action, co-ordination, learning and memory. Topics may vary from year to year.
Prerequisite: BGYB30H1

NROC350H1 Neuroscience II: 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: NROB60H1 plus one other B-level half-credit in PSY

NROC630H1 Neuroscience Laboratory
Instruction in a variety of techniques used in investigations of nervous system function.
Behavioral 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).
Limited enrollment: 20
Exclusion: PSY399H
Prerequisite: [PSYB70H1 or STAB22H1] & NROB60H1

NROC640H1 Neuroscience III: Sensory and Motor Systems
A focus on the mechanisms by which the nervous system processes sensory information and controls movement.
The topics include sensory transduction and the sensory physiology for each of the sensory systems (olfactory, visual, somatosensory, auditory, gustatory) and models of sensory processing. Both spinal and central mechanisms of motor control are also covered.
Exclusion: PSY299H
Prerequisite: NROB60H1

NROC680H3 Synaptic Organization 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: NROB60H1

NROC390H3 NROC390H3 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.
These courses provide an opportunity to engage in research in an area after completing basic coverage in regularly scheduled courses. The student must demonstrate a background adequate for the project proposed and should present a clear rationale to prospective supervisors. Regular consultation with the supervisor is necessary, and extensive data collection and analysis will be required. Such a project will culminate in a written research report.
Students must first find a supervisor before the start of the academic term in which the project will be initiated. They must then obtain a permission form from the Department of Psychology’s website (www.utsc.utoronto.ca/psych/undergraduates) that is to be completed and signed by the intended supervisor, and returned to the Psychology Office. At that time, the student will be provided with an outline of the schedule and general requirements for the course, including the structure of the required log-book.
Students seeking supervision off campus are further advised to check the appropriateness of the proposed advisor with the Program Supervisor. If the proposed supervisor is not appointed to the Neuroscience faculty at UTSC then a secondary supervisor who is a member of the Neuroscience group at UTSC will be required.
Exclusion: PSY393H
Prerequisite: 3.0 credits in Psychology, Biology or Neurosciences & permission of instructor.

NROC690H3 Current Topics in Neuroscience
An intensive examination of selected issues and research problems in the Neurosciences.
Exclusion: PSY390H
Prerequisite: NROC61H1 & NROC64H1

NROC693H Advanced Neuroscience Laboratory
Instruction in a variety of advanced techniques used in investigations of nervous system function. Advanced behavioral, surgical, and histological techniques used in the study of neuroscience will be covered.
Limited enrollment: 20
Exclusion: PSY399H
Prerequisite: NROC63H1
Corequisite: NROC61H1 & PSY299H

NROD670H3 Psychology 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.
Limited enrollment: 20
Prerequisite: NROB40H1 & [NROC61H1 or NROC64H1]
Corequisite: NROC61H1
NR099Y3 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, to be presented 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 Specialist in Neuroscience with a cumulative GPA of 3.3 or higher. Students planning to pursue graduate studies are especially encouraged to enrol in this course. Students must obtain a permission form from the Department of Psychology's website (www.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.
Exclusion: PSYD99Y, BYGD99Y, BYGD99Y, (BOD00Y), (BOD01Y)
Prerequisite: Satisfactory completion of 15.0 credits in any discipline, including PSYB00Y and one laboratory in Neuroscience 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 PSYC38H and who have a cumulative GPA of at least 3.3.

New Media Studies (B.A.)

Faculty List
K. Liddle, B.A. (Oberlin), M.A. (Auburn), Ph.D. (Emory), Assistant Professor
M. Maltman, B.A. (Dalhousie), Ph.D. (London), Assistant Professor
L. Chan, B.A., M.A. (Trent), Senior Lecturer

MAJOR (JOURNAL) PROGRAM IN NEW MEDIA STUDIES

Program Supervisor: L. Chan Email: new-media@utsc.utoronto.ca

A highly interdisciplinary program, New Media Studies explores the effects of digital technology on traditional forms of media as well as how new forms of cultural representations are created, consumed, and shared. A unique Joint Program between U of T Scarborough and Centennial’s Centre for Creative Communication (CCC), this program allows students to get the best of both worlds – the academic research strength of U of T Scarborough and the industry experience and reputation of the CCC. In this Joint program, students have to master the techniques necessary to create new digital representations, but more importantly, to learn about the underpinnings, during the course of the year, to achieve desired purposes within their academic programs.

This program may be taken in partial fulfillment of the requirements of a four year (20 credit) Honours Degree, when taken with a major (or speciality) program in another field. In addition to completing the requirements for the degree, students have the option of qualifying for a certificate from Centennial College by undertaking one additional session which includes a field placement and a professional practice course.

Program Admission

Limited enrolment. For direct admission from secondary school or from another U of T Faculty or from another post-secondary institution, see the Joint Programs with Centennial College section of this Calendar.

Students already at U of T Scarborough will be considered for admission after completing 4 full credits. Students must request the program in ROSI by the appropriate deadline and submit the Supplementary Application Form to the program supervisor by the same deadline. Students may be required to attend an interview before the admission decision is made. (For more details on application procedures and deadlines, see the program web site at http://www.utoronto.ca/~jprogs/newmedia/apply.html.)

Guidelines for 1st year course selection

Students who intend to complete the New Media program must include MDS A01H and MDS B03H in their 1st year course selection. As part of the requirements for both courses, students will be creating a portfolio that documents their academic as well as creative works. This portfolio will be maintained and built upon by the students from their first year until their graduation. Students are also strongly encouraged to take HUMA01H (Exploring Key Questions in Humanities) as early as possible in their studies.

Program Requirements

Students must complete 8 full credits including:

1. MDS A01H Introduction to New Media in Humanities and Social Sciences
2. 0.5 credits from among: (CSC A03H) The Why and How of Computing
   (CSC A08H) Introduction to Computer Programming
CSCA20H1 Computer Science for the Sciences
CSCA4H1 Introduction to Computer Science
VPAA30H1 Visual and Performing Arts in the Digital Age
(VPAH30H1) Computers and the Arts I
3. MDS362H1 Design in Visual Culture
4. 10 full credits from among the following courses (some courses have prerequisites and/or enrollment restrictions—students should consult the course descriptions and plan accordingly):
   ECMC20H1 Economics of the Media
   ECMC42H1 The Economics of the Internet and E-commerce
   [ENG902H1] Critical Writing About Narrative
   and
   [ENG903H1] Critical Thinking About Narrative
   [ENG904H1] Critical Writing About Poetry
   and
   [ENG905H1] Critical Thinking About Poetry
   [ENG255H1] Literature and Media: The Spoken Word and the Visual Page
   [ENG560H1] Literature and Media: From Page to Screen
   (HIDS37H1) History and Media in the United States
   (HSTD37H1) International Studies and International Communications
   [HUMA199H] Writing Practicum: A Course for Non-Native Speakers of English
   and
   [HUMA171H] Current Approaches to the Academic Writing Process I: A Course for Non-Native Speakers of English
   PHL203H1 Philosophy of Art
   PHL205H1 Social Issues
   PHL206H1 The Art of Thinking
   SOC255H1 Sociology of Culture
   SOC260H1 Gender and Information Technology
   SOCC44H1 Media and Society
   VPA305H1 Collaborations in the Visual and Performing Arts
   VPAH305H Introduction to Contemporary Cultural Theory
   VPSA212H1 Foundation Studies in Studio
   (VPSB73H1) Computers and the Arts II
   VPSB75H Photo-based Work
   VPSB76H Intermediate Video
   VPSB86H Digital Studio Practice
   WSTB13H1 Women and the Media
   (WSTB15H1) Women in the Cyberpace: Transnational Feminist Networks and Activism
5. New Media Group 1 — students will be eligible to enroll in these courses after successfully completing at least 10 full credits at
   University of Toronto Scarabourgh, which must include requirements 1, 2, 3 and 4 above.
   NMEA01H1 Digital Fundamentals
   NMEA02H1 Introduction to New Media Communications
   NMEA03H1 The Language of Design
   NMEA04H1 Interface Design, Navigation and Interaction I
   6. New Media Group 2 — students will be eligible to enroll in these courses after successfully completing all courses in Group 1 as
   listed in 5 above.
   NMEB05H1 Interface Design, Navigation and Interaction II
   NMEB06H1 Project Development and Presentation
   NMEB08H1 Application Software for Interactive Media
   NMEB09H1 Sound Design
   NMEB10H1 Design for New Media
   7. NMEB11H1 New Media Senior Project
   8. NMEB20H1 Theory and Practice of New Media

The following NME courses are taught at UTSC: NMEB01H1 and NMEB21H1. All other NME courses are taught at Centennial
College.

NMEA01H3 Digital Fundamentals
This course introduces 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. Limited enrolment: 35. This course is only open to students registered in the Joint Major Program in New Media. Prerequisite: 10 full credits
Corequisite: NMEA02H1, NMEA03H1, NMEA04H1
NMEAE20H3 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. Limited enrolment: 35
This course is only open to students registered in the Joint Major Program in New Media. Prerequisite: 10 full credits
Corequisites: NMEA01H, NMEA03H, NMEA04H

NMEA03H The Language of Design
This course introduces the fundamentals of two-dimensional design, graphic design theory, graphic design history, colour principles, typographic principles and visual communication theories applied to New Media Design: Working from basic form generation, typography, two-dimensional design principles, colour and visual communication strategies, learners will be introduced to the exciting world of applied graphic design and multimedia. Limited enrolment: 35
This course is only open to students registered in the Joint Major Program in New Media. Prerequisite: 10 full credits
Corequisites: NMEA01H, NMEA03H, NMEA04H

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. Limited enrolment: 35
This course is only open to students registered in the Joint Major Program in New Media. Prerequisite: 10 full credits
Corequisites: NMEA01H, NMEA03H, NMEA04H

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. Limited enrolment: 35
This course is only open to students registered in the Joint Major Program in New Media. Prerequisite: NMEA01H, NMEA03H, NMEA04H

NMBDO6H3 Project Development and Presentation
This course enables the participants 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. Limited enrolment: 35
This course is only open to students registered in the Joint Major Program in New Media. Prerequisite: NMEA01H, NMEA03H, NMEA04H, NMEA06H
Corequisites: NMEB05H, NMEB08H, NMEB09H, NMEB10H

NMEB08H3 Application Software for Interactive Media
This course builds on NMEA01H. 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). Limited enrolment: 35
This course is only open to students registered in the Joint Major Program in New Media. Prerequisite: NMEA01H, NMEA02H, NMEA03H, NMEA04H

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 create and compress audio files, and in the planning and post-production of new media. Students will also learn to use audio in interactive ways such as soundscapes. Limited enrolment: 35
This course is only open to students registered in the Joint Major Program in New Media. Prerequisite: NMEA01H, NMEA02H, NMEA03H, NMEA04H
Corequisites: NMEB05H, NMEB08H, NMEB09H, NMEB10H

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. Limited enrolment: 35
This course is only open to students registered in the Joint Major Program in New Media. Prerequisite: NMEA01H, NMEA02H, NMEA03H, NMEA04H
Corequisites: NMEB10H, NMEB05H, NMEB08H, NMEB09H

NMEDO1H3 New Media Senior Project
This course requires students to create a new media project, combining their learning in new media with another academic discipline (typically their other major). Projects can be websites, CD's or other suitable media. All projects will be evaluated both by the course convert and by a supervisor in another suitable academic discipline. Limited enrolment: 35
Prerequisite: Completion of 15 full credits including MDA01H1 or (NMEA20H), (MDDB26H1 or NMEED26H), NMEB05H, NMEB08H, NMEB09H, NMEB10H & NMEED26H

NMEED26H3 Theory and Practice of New Media
A seminar course providing critical reflection on digital media applications and their implementation in a variety of settings, including education, publishing, performing arts, video and film production. Students will also examine the ideological, political, structural, and representational assumptions underlying much of new media production and consumption in contemporary society. Limited enrolment: 35
Prerequisite: NMEB05H, NMEB08H, NMEB09H, NMEB10H & NMEED26H
Paramedicine

(B.Sc.)

specialist (joint) program in paramedicine

supervisor of studies: s. reid; email: paramedicine@utse.utoronto.ca

this program may be taken in fulfillment of the requirements of a four-year (20-credit) honours degree. students who complete the requirements of the program will also qualify for the paramedic diploma from centennial college. students who have completed the requirements for centennial’s diploma are eligible to take the ministry of health exams required to qualify as a primary care paramedic.

program admission

limited enrollment. applicants must fill out a joint program supplementary application 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 are also required. additional details regarding these requirements may be found at centennial’s website or by contacting walter tavares at centennial college (wtavares@centennialcollege.ca). applicants may arrange to complete some of these requirements during the first year of their studies at the university of toronto scarborough.

for more information on admission and deadlines, see the joint programs with centennial college section of this calendar.

guidelines for 1st year course selection

students who intend to complete the paramedicine program should include the following in their 1st year course selection:

bgya1h1, bgya2h1, chma10h1, chma11h1, psyh1h1, & psyh2h1 (plus 2.0 full credits of elective courses)

program requirements

note: in order to remain in the program, students must maintain a cumulative grade point average of at least 2.0.

students must complete the following courses (15.5 credits). note that an additional 4.5 credits of electives are required to fulfill the degree requirement of 20.0 credits:

bgya0h1 introductory biology: part i
bgya2h2 introductory biology: part ii
bgyb1h1 cell biology
bgyb1h1 aspects of cellular and genetic processes
bgyb3h1 mammalian physiology i
bgyb3h3 human development and anatomy
bgyc1h1 microbiology: the bacterial cell
bgyc2h1 mammalian physiology ii: lecture and laboratory
chma10h1 introductory chemistry: structure and bonding
chma11h1 introductory chemistry ii: reactions and mechanisms
pmdb2h1 pre-hospital care 1: theory and lab*
pmdb2h1 therapeutic communications and crisis intervention*

pmdb4h1 professional and legal issues, research, responsibilities and leadership*

pmdb8h1 alterations of human body function ii*

pmdb8h1 pharmacology for allied health*

pmdb2h2 pre-hospital care 2: theory, lab and clinical*

pmdb4h1 alterations in human body function ii*

pmdb2h2 pre-hospital care 3: theory, lab and field*

pmdb4h1 medical directed therapies and paramedic responsibilities*

pmdb5h1 primary care: paramedic integration and decision making*

polc5h1 canadian health policy

psyh1h1 introductory psychology: part i

psyh2h1 introductory psychology: part ii

psyb1h1 introduction to social psychology

psyb2h2 abnormal psychology

and

1.0 full credit from the following:

antb5h1 health and the urban environment

antc6h1 medical anthropology: illness and healing in cultural perspective

antc6h2 medical anthropology: biological and demographic perspectives

antd6h1 the body in culture and society

see the media studies section of this calendar for full course descriptions.
Students should pay careful attention to prerequisites, and should check the program website for a suggested course sequence which will allow for timely program completion.

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.
Limited enrolment: Enrolment is restricted to students in the Specialist Program in Paramedicine.
Prerequisite: BOYA01H & BOYA02H
Corequisite: PMDB22H3, PMDB841H, BGYB33H

PMDB28H3 Therapeutic Communications and Crisis Intervention
Focuses on the utilization of effective communication tools when dealing with persons facing health crises. 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.
Limited enrolment: Enrolment is restricted to students in the Specialist Program in Paramedicine.
Prerequisite: BOYA01H & BOYA02H
Corequisite: PMDB28H3, PMDB841H, BGYB33H

PMDB30H3 Alterations of Human Body Function 1
Discusses how the 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.
Limited enrolment: Enrolment is limited to students in the Specialist Program in Paramedicine
Prerequisite: PMDB22H3, PMDB82H3, PMDB841H, BGYB33H
Corequisite: PMDB30H3, PMDB836H

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 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.
Limited enrolment: Enrolment is limited to students in the Specialist Program in Paramedicine.
Prerequisite: PMDB22H3, PMDB82H3, PMDB841H, BGYB33H
Corequisite: PMDB30H3, PMDB836H

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, physiological action, adverse effects, precautions, interactions and Pre-hospital applications. Students will use a step-by-step process to calculate drug doses. This course is taught at the Centennial HP Science and Technology Centre.
Limited enrolment: Enrolment is limited to students in the Specialist Program in Paramedicine.
Prerequisite: PMDB22H3, PMDB82H3, PMDB841H, BGYB33H
Corequisite: PMDB36H3, PMDB32Y3

PMDB841H3 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.
Limited enrolment: Enrolment is restricted to students in the Specialist Program in Paramedicine.
Prerequisite: BOYA01H & BOYA02H
Corequisite: PMDB123H, PMDB82H3, BGYB33H
PMDC443H Allocations 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.
Limited enrolment: Enrolment is limited to students in the Specialist Program in Paramedicine.
Prerequisite: PMDB30H, PMDB32Y, PMDB36H, BGYB1H
Corequisite: PMDC42Y, PMDC43H

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.
Limited enrolment: Enrolment is limited to students in the Specialist Program in Paramedicine.
Prerequisite: PMDB30H, PMDB32Y, PMDB35H, BGYB1H
Corequisite: PMDC46H, PMDC47H

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.
Limited enrolment: Enrolment is limited to students in the Specialist Program in Paramedicine.
Prerequisite: PMDB30H, PMDB32Y, PMDB35H, BGYB1H
Corequisite: PMDC46H, PMDC47Y

PMDC54Y3 Pre-hospital Care 4: Theory, Lab and Field
Combines theory, lab and field application. New concepts of pediatric 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.
Limited enrolment: Enrolment is limited to students in the Specialist Program in Paramedicine.
Prerequisite: PMDC40H, PMDC42Y, PMDC43H
Corequisite: PMDC50H

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, patho-physiology, 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.
Limited enrolment: Enrolment is limited to students in the Specialist Program in Paramedicine.
Prerequisite: PMDC40H, PMDC42Y, PMDC43H
Corequisite: PMDC54Y

Philosophy (B.A.)

Faculty List
W.C. Graham, M.A., Ph.D. (Toronto), Professor Emeritus
J.H. Sebel, M.A. (Iowa State), Ph.D. (Michigan), Professor Emeritus
W.E. Seager, M.A. (Alberta), Ph.D. (Toronto), Professor
P. Kremmer, B.Sc. (Toronto), Ph.D. (Pittsburgh), Associate Professor
L. Large, B.A., M.A. (Munich), Ph.D. (Toronto), Associate Professor
S. Sedivy, B.A. (Toronto), Ph.D. (Pittsburgh), Associate Professor
V. Burke, B.Sc. (Northern Arizona), M.A. (Maine), Ph.D. (Binghamton), Assistant Professor
J. Hawkins, B.A. (Reed), M.A. (Princeton), Assistant Professor
D. Holle, B.A. (Stanford), Ph.D. (Princeton), Assistant Professor
J. Wilson, B.A. (U.C. San Diego), Ph.D. (Cornell), Assistant Professor

Program Director: S. Sedivy Email: philosophy-program-supervisor@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 ways, 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. So philosophy emphasizes interpretation and original thought, reasoning, discussion and assessment.
PHLA10H1 and PHLA11H1 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.

D-level courses address specific topics such as theories of human nature, theories of mind, theories of knowledge, metaphysics, techniques of argumentation, ethics, politics, feminism, and art as well as specific periods in the History of Philosophy. Since they have no prerequisites they also serve as entry-points to philosophy.

C-level seminars in Philosophy are advanced courses for students with either one or two credits in Philosophy, depending on the semester. Instructors will admit students whose courses in other disciplines have adequately prepared them for a seminar. Students must provide a transcript 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.

The Philosophy Study Guide is available at: http://www.arts.utoronto.ca/~sanger/study.html

Guidelines for 1st year course selection

Students who intend to complete a Philosophy program should include PHLA10H1 & PHLA11H1 in their 1st year course selection. Students are also strongly encouraged to take HUMA01H (Exploring Key Questions in Humanities) as early as possible in their studies.

Note: For Co-op opportunities related to the Major Program in Philosophy, please see the Co-operative Program in Humanities section of this Calendar.

SPECIALIST PROGRAM IN PHILOSOPHY

Program Supervisor: S. Sedovy Email: philosophy-major-supervisor@arts.utoronto.ca

Program Requirements

Students must complete at least 10.0 credits in Philosophy; at least 4.0 credits must be at the C- or D-level. MATC09H1 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.

MAJOR PROGRAM IN PHILOSOPHY

Program Supervisor: S. Sedovy Email: philosophy-major-supervisor@arts.utoronto.ca

Program Requirements

Students must complete at least 7.0 credits in Philosophy; at least 1.5 credits must be at the C- or D-level. MATC09H1 can be used as a Philosophy course for these purposes.

MINOR PROGRAM IN PHILOSOPHY

Program Supervisor: S. Sedovy Email: philosophy-minor-supervisor@arts.utoronto.ca

Program Requirements

Students must complete 4.0 credits in Philosophy; at least 1.0 credit must be at the C- or D-level. MATC09H1 can be used as a Philosophy course for these purposes.

PHLA10H1 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.

PHLA11H1 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: PHL273H

PHLB03H3 Philosophy of Art

What is art? We will examine theories of the nature of art together with critiques of each of these theories. The course will then examine some issues specific to particular forms of art, such as literature, drama, film, dance and the visual arts. Exclusion: PHL235H

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.
PHIL69H3 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: MGT350H, PHIL29H3

PHIL67H3 Happiness and Freedom
What is well-being? What is autonomy? These two notions are central in ethical theory, law, bioethics, and in the popular imagination. In this course we will explore well-being and autonomy in more depth, and then consider how our views about well-being and autonomy shape our views about ethics.
Limited enrolment: 50

PHIL68H3 Ethics and International Development
Ethics is concerned with right action - with questions of how we should treat one another. This course will focus on ethical questions that arise in the context of international, cross-cultural interactions with a particular focus on the intersections between the developed world and the developing world.
Limited enrolment: 50

PHIL69H3 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: PHIL28H3, PHIL28Y1

PHIL19H3 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, censorship, autonomy, and paternalism, constitutional protection of human rights.
Exclusion: PHIL27H1

PHIL12H3 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: PHIL267H

PHIL15H3 Philosophy of Education
A philosophical study of the nature, practice and value of education. Major philosophical accounts of education will be examined. Topics to be considered may include: the nature, aims, and content of education, education and indoctrination, the role and justification of educational institutions, authority and freedom in the school.
Exclusion: PHIL272H

PHIL16H3 Political Philosophy: Ancient Greece and the Middle Ages
This course will introduce some important thinkers in political philosophy, such as Plato, Aristotle, Augustine and Aquinas.
Exclusion: PHIL265H. Note: PHIL16H may not be taken after or concurrently with PHIL17H.

PHIL17H3 Political Philosophy: The Modern Period
This course will introduce some important thinkers in political philosophy from the 16th Century to the 19th Century. These may include Thomas Hobbes, John Locke, Jean-Jacques Rousseau, G.W.F. Hegel, John Stuart Mill, or Karl Marx.
Exclusion: PHIL265H. Note: PHIL17H may not be taken after or concurrently with PHIL16H.

PHIL20H3 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 skepticism, the scope and limits of human knowledge, the nature of perception, rationality, and theories of truth.
Exclusion: PHIL265H

PHIL30H3 Existentialism
A study of the views and approaches pioneered by such writers as Kierkegaard, Husserl, Heidegger, and Sartre. Existentialism has had influence beyond philosophy, impacting theology, literature, and psychotherapy. Characteristic topics include: the nature of the self and its relations to the world and society, self-deception, and freedom of choice.
Exclusion: PHIL22H1

PHIL31H3 Introduction to Ancient Philosophy
A survey of some major 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.
Limited enrolment: 50. PHIL20H2

PHIL33H3 Introduction to Early Modern Philosophy
This course covers the major figures and themes in seventeenth and eighteenth century philosophy, Descartes, Leibniz, Berkeley, and Hume will be covered. Metaphysical and epistemological themes will be emphasized.
Exclusion: PHIL210V

PHIL50H3 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: PHIL245H

PHIL53H3 The Art of Thinking
A study of methods and techniques for developing effective reasoning and argumentation. This course aims to develop skill in identifying ambiguities, evaluating premises, constructing counter-examples, and reconstructing arguments. This course provides an important foundation for Philosophy students, while offering essential critical skills for all students, no matter what their program.
Exclusion: PHIL247H, TRN200Y
PHIL680H3 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: PHIL231H1

PHIL700H3 Philosophy of Science
A study of philosophical questions raised by the natural and social sciences. Topics discussed may include: the nature of rationality and the role of values in science, the description of scientific methodology, the structure of scientific theory, and the question of how or in what sense science progresses.
Exclusion: IPHS250H1, PHIL235H1
Prerequisite: One full or half credit course in Philosophy or in one of the Sciences.

PHIL800H3 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 intrinsic biological feature of human beings, how do words manage to refer to things, and what is meaning.

PHIL891H3 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 mind evolve and do animals have minds, what is thinking, what are feelings and emotions, and do machines have minds.
Exclusion: PHIL248H

PHIL864H3 Foundations of Cognitive Science
A study of the hypotheses and theories that ground cognitive science. Fundamental questions include: what is a computational system and how can a physical system think and understand language? The course examines the functionalist theory of mind, the relationship between syntax and semantics, and the theory of interpretative formal systems.

PHIL91H3 Theories of Human Nature
An exploration of theories which provide answers to the question "What is a human being?" Investigating catchphrase definitions such as: 'Man is a rational animal', 'Man is a political animal', 'Man is inherently individual', 'Man is inherently social', etc. Authors studied include: Aristotle, Hobbes, Rousseau, Darwin, Marx and Freud.
Exclusion: PHIL244H1, PHIL91H1

PHIL200H3 Topics in the Philosophy of Art
An exploration of some current issues concerning the various forms of art: the role of the museum, the loss of beauty and the death of art.
Prerequisite: 2.0 credits in PHIL or permission of the instructor

PHIL295H3 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 some classic philosophical texts by the major systematic thinkers in the Western tradition of ethics. Particular authors read may vary from instructor to instructor.
Exclusion: PHIL601H1, PHIL375H1
Prerequisite: One course in Philosophy, preferably PHIL111H3 (though not required), or permission of the instructor

PHIL265H3 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.
Exclusion: PHIL601H1, PHIL375H1
Prerequisite: One course in Philosophy, preferably PHIL205H3 (though not required), or permission of the instructor

PHIL293H3 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: 1.0 full credit in Philosophy

PHIL203H3 Topics in the Theory of Knowledge
A follow up to PHIL220H1. This course will consider one or two epistemological topics in depth, with an emphasis on class discussion.
For details for a given academic year, please consult the U of T Scarborough Philosophy Study Guide.
Prerequisite: 1.0 credit in Philosophy or Permission of the Instructor.

PHIL235H3 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.
Exclusion: PHIL310H1
Prerequisite: At least 1.0 credit in Philosophy at the B- or C-level.
Recommended: PHIL255H
PHLC39H3 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. Exclusion: PHL311H1
Prerequisite: [PHL255H1 or PHLS60H1] & 1.0 further credit in Philosophy

PHLC43H3 History of Analytic Philosophy I

The foundations 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, and its motivations from and consequences for metaphysics and the philosophy of mind. Exclusion: PHIL252H1
Prerequisite: 0.5 credit in logic, either PHIL50H1, PHIL251H1, PHIL254H1 or MAT209H1, and 0.5 other credit in Philosophy at the B or C level. Recommended: PHIL600H1 or PHIL800H1 or PHIL900H1

PHLC44H3 History of Analytic Philosophy II

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 “verificational” theories.
Exclusion: PHIL352H1
Prerequisite: 0.5 credit in logic, either PHIL50H1, PHIL251H1, PHIL254H1 or MAT209H1, and 0.5 other credit in Philosophy at the B or C level. Recommended: PHIL600H1 or PHIL800H1 or PHIL900H1

PHLC51H3 Symbolic Logic I

After consolidating the material from Symbolic Logic I, we will introduce necessary background for metamathematics, the study of the properties of logical systems. We will introduce set theory, historical developed in parallel to logic. We conclude with some basic metatheory of the propositional logic learned in Symbolic Logic I. Exclusion: PHIL345H1
Prerequisite: PHIL255H1

PHLC54H3 Metalogic

Symbolic Logic I 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.
Exclusion: PHIL348H1
Prerequisite: PHIL250H1 or a strong mathematical background, as determined by the instructor, or permission of the instructor.

PHLC55H3 Philosophy of Mathematics

What are numbers? Are they physical? Mental? Created by humans? How do we know anything about numbers, if we never see or touch them? What is mathematics truth? Such questions should concern mathematics students interested in the foundations of mathematics, and philosophy students, as a rich source of philosophical puzzle.
Exclusion: PHIL464H1
Prerequisite: [Two MAT courses & one PHIL course] or [One MAT course & [PHIL360H1 & one other PHIL course]] or permission of the instructor.

PHLC69H3 Topics in Metaphysics

A follow up to PHIL660H1. This course will consider one or two metaphysical topics in depth, with an emphasis on class discussion. For details for a given academic year, please consult the U of T Scarborough Philosophy Study Guide. Prerequisite: [PHIL460H1 & 1.0 further credit in Philosophy] or permission of the instructor.

PHLC72H3 Topics in the Philosophy of Science

A follow up to PHIL700H1. This course will consider one or two topics in the Philosophy of Science in depth, with an emphasis on class discussion. For details for a given academic year, please consult the U of T Scarborough Philosophy Study Guide. Prerequisite: [PHIL700H1 & 1.0 further credit in Philosophy] or permission of the instructor.

PHLC84H3 Seminar in Philosophy: Postcolonial Studies in Philosophy

A critical postcolonial examination of some aspects of Western European philosophy. How has Western philosophy been shaped by the colonisation of other parts of the globe? We will examine modern Western philosophy's ideals of rationality, universality, and progress in this light.
Prerequisite: 2.0 credits in Philosophy or permission of the instructor.

PHLC86H3 Issues in the Philosophy of Mind

Advanced 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: 2.0 credits in PHIL or permission of the instructor.

PHLC88H3 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. Sample historical topics: the study of an important period; the work of an important analytic philosopher. For details for a given academic year, please consult the U of T Scarborough Philosophy Study Guide.
Prerequisite: 1.0 credit in Philosophy or permission of the instructor.
PHIL392H3 Topics in Contemporary Political Philosophy
An examination of some central philosophical problems of contemporary political philosophy. For details for a given academic year, please consult the U of T Scarborough Philosophy Study Guide. Pre-requisite: Two 2-level half-credit courses in Philosophy.

PHIL393H3 Seminar in Philosophy: Justice
A discussion of the question "What is justice?" The question has been asked since the time of Plato, but seems to resist definitive answers. This course will examine debates about justice in recent political philosophy. Authors discussed may include: John Rawls, Robert Nozick, Bruce Ackerman, Michale Sandel, Iris Young. Pre-requisite: Two 2-level half-credit courses in Philosophy or permission of the instructor.

PHIL395H3 Topics in the Philosophy of Mind
Advanced topics in the Philosophy of mind, for example 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. Pre-requisite: 2.0 credits in PHIL including PHIL393H or permission of the instructor.

PHIL396H3
PHIL397H3
PHIL398H3
PHIL399H3 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 (B.Sc.)
The following Specialist Programs are offered by the Department of Physical and Environmental Sciences:

- Biological Chemistry
- Chemistry
- Environmental Biology
- Environmental Chemistry
- Environmental Geosciences
- Environmental Physics
- Environmental Science and Technology
- Natural Sciences (offered jointly with the Department of Computer and Mathematical Sciences)
- Physical and Mathematical Sciences
- Physics and Its Applications

The following Major Programs are offered by the Department of Physical and Environmental Sciences:

- Astrophysics and Physics
- Biochemistry
- Chemistry
- Environmental Science
- Physical Sciences

The Department also offers a Minor Program in Environmental Science. For more information on these programs, see the appropriate section of this Calendar.

Students are strongly advised to take the courses in the sequence recommended by their program(s) of choice. Irreconcilable timetable differences may arise if courses are delayed to later years. Students should pay careful attention to all pre- and co-requisite courses to ensure that they are eligible to take their courses at the proper time. Some C- and D-level courses are offered in alternate years. Students are advised to consult with their Program Supervisor(s) to find out when particular courses will be available.

Science Engagement Courses
For science experiential learning through community outreach (SCI201H), classroom in-reach (SCI202H) and team research, please see the Science Engagement section of this Calendar.

EARLY TEACHER PROJECT
Coordinator: C.C. Dyer (416-287-7206) Email: dyer@uts.c.utoronto.ca
The Early Teacher Project (ETP) in Physical Sciences is being phased out and replaced by the Concurrent Teacher Education Program (CTEP) in the mathematical and physical sciences. Every effort will be made to ensure that students who first enrolled at U
of T. Scarborough in 2006-07 or earlier and who are admitted to the Early Teacher Project are able to complete it as described in the 2006/07 Calendar.

For more information on CTEP, see the Concurrent Teacher Education section of this Calendar.

CO-OPERATIVE PROGRAM IN PHYSICAL SCIENCES
Supervisor of Studies: S. Dalili (416-287-7215) Email: sddalili@utsc.utoronto.ca
Coo-op Contact: mckee@utsc.utoronto.ca
The Co-operative Program in Physical Sciences allows students to combine their chosen academic program with an integrated and complementary work experience. Students are required to complete any one of the Specialist Programs offered by the Department of Physical and Environmental Sciences or the Department of Computer and Mathematical Sciences, except those in Computer Science and the Joint Specialist Program in Environmental Science and Technology, or an approved combination of two Major Programs within their 20-credit degree program. They will also complete three work terms of four months each, as well as a specially designed series of enhancement seminars. The overall purpose of the Co-op Program is to provide for students an educational milieu that will allow them to develop as highly qualified scientists, with excellent experience in both the academic and workplace environments.

For information on fees, work terms, and studying in the program, please see the Co-operative Programs section of this Calendar.

Note: The Co-op in Computer Science is not part of the Physical Sciences Co-op. For more information on it, see the Computer Science section of this Calendar.

Eligible Programs of Study for Co-op:
Students may take any of the Specialist Programs offered in the Department of Physical and Environmental Sciences or the Department of Computer and Mathematical Sciences, except those in Computer Science and the Joint Specialist Program in Environmental Science and Technology. Currently, these Programs are:

- Biological Chemistry
- Chemistry
- Environmental Biology
- Environmental Chemistry
- Environmental Geosciences
- Environmental Physics
- Mathematics
- Mathematics and its Applications (with streams in Statistics, Computational Physical Sciences and Mathematics Teaching)
- Natural Sciences
- Physical and Mathematical Sciences
- Physics and its Applications (with concentrations in Astronomy and Physics, Physics and Physics Teaching)
- Quantitative Analysis

Alternatively, with the approval of the Co-op Supervisor of Studies, students may select one of the Major Programs offered in the Department of Physical and Environmental Sciences or the Department of Computer and Mathematical Sciences, except for Computer Science, as their primary major, and take this in combination with a second Major Program thus fulfilling the requirements for the 20-credit degree. Currently, the eligible Major Programs are:

- Astrophysics and Physics
- Biochemistry
- Chemistry
- Environmental Science
- Mathematics
- Physical Sciences
- Statistics

The second major may be from those offered in the Department of Physical and Environmental Sciences, or from another Department. All double-major combinations must be discussed with and approved by the Supervisor of Studies. The second major may be in Computer Science. Students must meet all the requirements for admission to and continuation in this or any other limited enrolment Major Program.

For academic program descriptions and requirements, please refer to the sections of the Calendar related to each discipline.

All program registrations must be approved and confirmed each year by the Supervisor of the Co-op Program and the Supervisor of the particular program(s).

Students are individually responsible for ensuring that they have correctly completed all program and degree requirements for graduation.
Program Admission

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

Current U of T Scarborough students: Application procedures can be found at the Registrar’s Office website at: www.utsa.utoronto.on.ca/subjectpost. The minimum qualifications for entry are:

1. Astrophysics & Physics (Major): 4.0 full credits including ASTA01H, ASTA02H, MATA34H, [MATA36H or MATA37H], PHYA10H & PHYA21H plus a cumulative GPA of at least 2.5
2. Biochemistry (Major): 4.0 full credits including BOYA01H, BOYA02H, CHMA10H, CHMA11H plus a cumulative GPA of at least 2.5
3. Biological Chemistry (Specialist): 4.0 full credits including BOYA01H, BOYA02H, CHMA10H, CHMA11H, MATA30H, [MATA35H or MATA36H or MATA37H], PHYA10H & PHYA21H plus a cumulative GPA of at least 2.5
4. Chemistry (Major): 4.0 full credits including CHMA10H, CHMA11H, MATA30H, [MATA35H or MATA36H or MATA37H], PHYA10H & PHYA21H plus a cumulative GPA of at least 2.5
5. Chemistry (Specialist): 4.0 full credits including CHMA10H, CHMA11H, MATA30H, [MATA30H or MATA37H], PHYA10H & PHYA21H plus a cumulative GPA of at least 2.5
6. Environmental Biology (Specialist): 4.5 full credits as follows: BOYA01H, BOYA02H, CHMA10H, CHMA11H, EESA01H, EESA06H, MATA30H, [MATA35H or MATA36H or MATA37H] & PHYA10H plus a cumulative GPA of at least 2.5
7. Environmental Chemistry (Specialist): 4.5 full credits as follows: BOYA01H, BOYA02H, CHMA10H, CHMA11H, EESA01H, EESA06H, MATA30H, [MATA35H or MATA36H or MATA37H] & PHYA10H plus a cumulative GPA of at least 2.5
8. Environmental Geoscience (Specialist): 4.5 full credits as follows: BOYA01H, BOYA02H, CHMA10H, CHMA11H, EESA01H, EESA06H, MATA30H, [MATA35H or MATA36H or MATA37H] & PHYA10H plus a cumulative GPA of at least 2.5
9. Environmental Physics (Specialist): 4.5 full credits as follows: CHMA10H, CHMA11H, EESA01H, EESA06H, MATA30H, [MATA35H or MATA36H or MATA37H] & PHYA10H & PHYA21H plus a cumulative GPA of at least 2.5
10. Environmental Science (Major): 4.0 full credits including BOYA01H, BOYA02H, EESA06H plus a cumulative GPA of at least 2.5
11. Mathematics (Major): 4.0 full credits including [CSCA48H or PSCB57H], MATA23H, MATA30H & [MATA36H or MATA37H] plus a cumulative GPA of at least 2.5
12. Mathematics (Specialist): 4.0 full credits including CSCA48H, MATA23H, MATA30H & MATA37H plus a cumulative GPA of at least 2.5
13. Mathematics & Its Applications (Specialist): CSCA48H, MATA23H, MATA30H & MATA37H plus a cumulative GPA of at least 2.5
14. The Computational Physical Sciences stream also requires ASTA01H, ASTA02H, PHYA10H & PHYA21H
15. Natural Sciences (Specialist): 4.0 full credits including BOYA01H, BOYA02H, MATA30H, [MATA35H or MATA36H or MATA37H], PHYA10H & PHYA21H plus a cumulative GPA of at least 2.5
16. Physical Sciences (Major): 4.0 full credits as follows: ASTA01H, ASTA02H, CHMA10H, CHMA11H, MATA30H, [MATA35H or MATA37H], PHYA10H & PHYA21H plus a cumulative GPA of at least 2.5
17. Physical & Mathematical Sciences (Specialist): 4.0 full credits including ASTA01H, ASTA02H, MATA23H, MATA30H, [MATA35H or MATA36H or MATA37H], PHYA10H & PHYA21H plus a cumulative GPA of at least 2.5
18. Physical & Its Applications (Specialist): 4.0 full credits including ASTA01H, ASTA02H, MATA23H, MATA30H, [MATA35H or MATA36H or MATA37H], PHYA10H & PHYA21H plus a cumulative GPA of at least 2.5
19. Quantitative Analysis (Specialist): 4.0 full credits including CSCA08H, CSCA48H, CSSC66H, MATA23H, MATA30H & MATA37H plus a cumulative GPA of at least 2.5
20. Statistics (Major): 4.0 full credits including CSCA48H, MATA23H, MATA30H & MATA37H plus a cumulative GPA of at least 2.5

Work Terms
To be eligible for their first work term, students must have completed at least 7.0 full credits and have completed the Arts & Science Co-op Work Term Preparation course. Students will work in areas closely related to their academic programs. If a student is taking a double-major Program, and if the second major is in Computer Science or in another Department, the work term will be primarily associated with the primary Physical Sciences major. Students are not permitted to complete more than one summer work term.

PROGRAMS AND COURSES

The Programs offered by the Department of Physical and Environmental Sciences emphasize co-ordination among traditional subject areas. The aim is to provide students with an integrated view of science. The Concurrent Teacher Education Program (CTEP) and the Co-operative Programs offered in the Department build on this interdisciplinary theme.

Note: Co-requisites and prerequisites must be carefully checked; for example, MATH41H is a co-requisite for PHYB21H.

The Department of Physical and Environmental Sciences offers interdisciplinary courses under the PSC designation. They are designed for students with a broad interest in Physical Sciences. Many of the Specialist and the Major Programs offered by the disciplines of the Department of Physical and Environmental Sciences require one or more PSC courses.
The Department offers an interdisciplinary Specialist Program in the Physical and Mathematical Sciences. This Program provides an excellent opportunity to combine studies from a number of disciplines

**SPECIALIST PROGRAM IN NATURAL SCIENCES**  
**Supervisor of Studies:** N. Cherdeko (416-287-7226)  
**E-mail:** n.cherdeko@utoronto.ca

The program is designed to give students a broad background in science with a deeper knowledge of one field. Two seminar courses and a humanities requirement are intended to ensure that graduates can also talk about science and write about science. The program is well-suited to students interested in teaching science at an elementary or intermediate level and as such complements the Concurrent Teacher Education Program (CTEP). It could also lead to careers in science journalism or in science policy.

**Program Requirements**  
The program requires 33.5 to 14.5 full credits depending on choices made in Requirement 5 as follows:

1. **Year 1:** 4.0 credits in total:
   - a. 1.0 credit Biology: BOYA1H & BOYA1O2H
   - b. 1.0 credit Chemistry: CHMA10H & CHMA11H
   - c. 1.0 credit Physics: PHYA10H & PHYA21H
   - d. 1.0 credit Calculus: MATA30H & one of MATA35H, MATA36H or MATA37H

2. **Additional required courses:** 2.5 credits in total:
   - a. CSGA22H or PSCD37H
   - b. EESA61H or EESA66H
   - c. ASTA61H
   - d. STAD22H or STASB2H
   - e. PHLB61H

3. **1.0 credit at B-level in each of THREE of the discipline groups, 3.0 credits in total:**
   - a. Physics & Astronomy
   - b. Chemistry
   - c. Biology
   - d. Mathematics & Statistics (not to include STAB02H or STAB52H if taken to satisfy 2 above)
   - e. Environmental Science

4. **PSCD01H & PSCD02H**

5. **Complete the remainder of the required courses for one major program in one of the discipline groups.**

**SPECIALIST PROGRAM IN PHYSICAL AND MATHEMATICAL SCIENCES**  
**Supervisor:** J. Lowman (416-288-4880)  
**E-mail:** lowman@tcono.utoronto.ca

This Program provides a framework of courses in the Physical Sciences based upon a firm Mathematical foundation, relating Astronomy, Chemistry, Computer Science, Physics and Statistics. It prepares students for careers in teaching, industry, and government as well as for further studies at the graduate level.

**Program Requirements**

**First Year:**
- ASTA01H Introduction to Astronomy and Astrophysics I: The Sun and Planets
- ASTA22H Introduction to Astronomy and Astrophysics II: Beyond the Sun and Planets
- CHMA10H Introductory Chemistry I: Structure and Bonding
- CHMA21H Introductory Chemistry II: Reactions and Mechanisms
- MATA23H Linear Algebra I
- MATA30H Calculus I
- MATA35H Calculus II for Physical Sciences
- MATA36H Calculus II for Mathematical Sciences
- PHYA10H Introduction to Physics 1A
- PHYA21H Introduction to Physics 2A

**Second Year:**
- CSGA22H Computer Science for the Sciences
- MATH24H Linear Algebra II
- MATH34H Techniques of the Calculus of Several Variables I
- MATH40H Differential Equations I
- PHYB10H Intermediate Physics Laboratory I
- PHYB21H Electricity and Magnetism
- PHYB25H Foundation of Modern Physics
Second or Third Year:
ASTB1H Solar System and Stellar Astrophysics
CHMB20H Chemical Thermodynamics and Elementary Kinetics
CHMB21H Chemical Structure and Spectroscopy
CSCB55H Computer Organization
MATB42H Techniques of the Calculus of Several Variables II
MATC46H Differential Equations II
PSCE87H Introduction to Scientific Computing
STAG72H Introduction to Probability

Third and Fourth Year:
ASTC22H Galactic and Extragalactic Astrophysics
[CSCC56H Numerical Methods
or
CSCC50H Numerical Algebra and Optimization
and
CSCC51H] Numerical Approximation, Integration and Ordinary Differential Equations
CSCC55H Microprocessor Systems
MATB61H Linear Programming and Optimization
MATC34H Complex Variables
[PSCE80H] The Instrumentation of Science
or
PHYB11H] Intermediate Physics Laboratory II
PHYB20H Vibrations and Waves
PSCE80H Current Questions in Mathematics and Science
or
PSCE10H] Physical Sciences Project
STAG72H Introduction to Statistics

Note: PSCE80H is a required course for ETP students

MAJOR PROGRAM IN PHYSICAL SCIENCES
Supervisor: G. Lortie (416-287-7248) Email: lorti@unc.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
The Program requires 8 full credits as follows:
First Year:
ASTA01H Introduction to Astronomy and Astrophysics I: The Sun and Planets
ASTA02H Introduction to Astronomy and Astrophysics II: Beyond the Sun and Planets
CHMA1H Introductory Chemistry 1: Structure and Bonding
CHMA1H Introductory Chemistry II: Reactions and Mechanisms
MATA30H Calculus I
[MATA35H Calculus II for Physical Sciences
MATA37H] Calculus II for Mathematical Sciences
PHYA10H Introduction to Physics I
PHYA11H Introduction to Physics IIA

Some of these can be deferred to second year, but then prerequisites for second- and third-year courses must be carefully checked.

Second and Third Years:
CSCA20H Computer Science for the Sciences

And any 3.5 full credits from the following:
ASTB1H Solar Systems and Stellar Astrophysics
CSCB55H Galactic and Extragalactic Astrophysics
CHMB20H Chemical Thermodynamics and Elementary Kinetics
CHMB21H Chemical Structure and Spectroscopy
CSCA45H Introduction to Computer Science
or
PSCE87H Introduction to Scientific Computing (recommended)
PSCD01H The Instrumentation of Science
This is a study of the computer control of various digital instruments used in the sciences. The course will provide a background in the principles of basic electronics and digital circuits sufficient to understand the working and limitations of modern electronic instruments. It will provide hands-on experience, including simple programming, using the sensors of modern science, the associated instruments, and the transfer of data to a controlling computer. Activities will be selected from as large a range of subject areas as possible in Physics, Chemistry, Environmental and Life Sciences.
Prerequisite: PHYA13H

PSCB57H3 Introduction to Scientific Computing
This course is an introduction to the use of computers in the physical and biological sciences emphasizing the choice and design of algorithms and their implementation in a high-level computer language for the solution of problems arising in the physical and biological sciences. Topics will include elementary numerical analysis, such as numerical integration, mathematical modeling of physical systems, data fitting and interpolation. (Intended primarily for physical and biological science students who do not plan to pursue any of the Programs in computer science or cognitive science.)
Corequisites: [MATA36H or MATA37H] or [MATA35H with permission of the instructor] & one A-level science course

PSCD01H3 The Physical Sciences in Contemporary Society
Current issues involving physical science in modern society. Topics include: complex nature of the scientific method; interconnection between theory, concepts and experimental data; characteristics of premature, pathological and pseudo-sciences; 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 PSCD01H is a Program requirement, it may be replaced by PHY341H with the approval of the Program supervisor.
Exclusion: PHY341H
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.

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.
Note: Where PSCD02H is a Program requirement, it may be replaced by PHY342H with the approval of the Program supervisor.
Exclusion: PHY342H
Prerequisite: Completion of at least 3.5 credits of a Physical Sciences program
Corequisite: Continued participation in one of the Physical Sciences programs.

PSCD10H3 Physical Sciences Project
This course is intended to introduce students to current topics of research in the physical sciences under the supervision of a professional faculty member. Students will undertake an independent project or series of projects involving theoretical, computational, experimental laboratory or field work in the Physical or Environmental Sciences. Students will be evaluated by the supervising faculty member in consultation with the course supervisor. Students must obtain the consent of the course supervisor to enrol in this course.
Exclusion: (PSCC10H)
Prerequisite: 14.0 credits & a cumulative GPA of at least 2.5
Physics
(B.Sc.)

Faculty List
A. Griffin, M.Sc. (British Columbia), Ph.D. (Cornell), Professor Emeritus
A. Jacobs, B.A., B.Sc. (Waterloo), Ph.D. (Illinois), Professor Emeritus
J.D. King, B.A., (Toronto) Ph.D. (Saskatchewan), Professor Emeritus
M.J.O. Lee, M.A., Ph.D. (Cantab), Professor Emeritus
P.J. O'Donnell, B.Sc., Ph.D. (Glasgow), Professor Emeritus
J.M. Perez, B.A.Sc., M.A.Sc. (Toronto), Ph.D. (Cantab), Professor Emeritus
P. Atygnozic, M.Sc., (Warsaw University), Ph.D. (N. Copernicus Astron. Center, Polish Academy of Sciences), Professor
C.C. Dyer, B.Sc. (Bishop's), M.Sc., Ph.D. (Toronto), Professor
J.P. Lowman, B.Sc. (Toronto), M.Sc., Ph.D. (York, Canada), Assistant Professor
G. Lipton, B.Sc., M.Sc. (Toronto), Senior Lecturer
S. Tawfiq, B.Sc., M.Sc. (Al-Mustansariya) Ph.D. (Trieste, Italy), Senior Lecturer

Physics is the study of the basic laws that govern how material objects move and influence each other. 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 the theory of 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 gasses, liquids, solids, plasmas, and nuclear matter 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 of the subject.

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, therefore, involves both mathematics and the techniques of experimentation.

At the University of Toronto Scarborough, students who are interested in Physics can take the Specialist Program in Physical & Mathematical Sciences, the Specialist Program in Physics and its Applications, the Specialist Program in Computer Science and Physical Sciences (Computer Science and Physics stream), or the Major Program in Physical Sciences. Note that most of the courses in the last two years of the Specialist Program in Physics and its Applications are taught on the St. George campus. Also, there are a number of other Specialist programs associated with the Department of Physics. These include Specialist in Biophysics, Chemical Physics, Computer Science and Physics, Geology and Physics, Earth Systems: Physics & Environment and Planetary Science.

Students interested in any of these options should consult with the Program Supervisor within the first week of classes.

Notes:
1. MATA37H is the preferred prerequisite for PHYA21H, although MATA31H or MATA31H is an acceptable alternative. However, only MATA31H will serve as a prerequisite for higher-level MAT courses. Therefore, students contemplating a Program that contains MAT courses beyond the A-level must take MATA37H.
2. The Specialist Program in Physics and its Applications includes Faculty of Arts and Science courses among its requirements and options. Students are reminded that there is a restriction on the number of courses they may take on other campuses in the course of their degree. For this reason, students are advised, where possible, not to take courses off campus if the equivalent course is offered at UTSC so that they leave themselves some flexibility towards the end of their program.

Science Engagement Courses
For science experiential learning through community outreach (SCIB01H), classroom in-reach (SCIB02H) and team research, please see the Science Engagement section of this Calendar

SPECIALIST PROGRAM IN PHYSICS AND ITS APPLICATIONS
Supervisor: S. Tawfiq (416-287-7243)  Email: tawfieq@utsc.utoronto.ca

Program Requirements

Note: Courses which have a number as the fourth character (e.g. PHYB205H) are offered on the St. George Campus.

Note: Students in this program are exempt from the normal limit of 1.0 credits on other campuses; they may take a maximum of 10.0 credits on other campuses in order to complete the requirements of the program.
First Year - 4.0 credits
ASTA01H Introduction to Astronomy and Astrophysics I: The Sun and Planets
ASTA02H Introduction to Astronomy and Astrophysics II: Beyond the Sun and Planets
CSCA20H Computer Science for the Sciences
PHYA11H Introduction to Physics I
PHYA21H Introduction to Physics IIA
MATB23H Linear Algebra I
MATB33H Calculus I
[MATB36H Calculus II for Physical Sciences or
MATB37H] Calculus II for Mathematical Sciences

Second Year - 4.0 credits
ASTB21H Solar Systems and Stellar Astrophysics
PHYB10H Intermediate Physics Laboratory I
PHYB11H Intermediate Physics Laboratory II
PHYB21H Electricity and Magnetism
PHYB25H Foundation of Modern Physics
MATB41H Techniques of the Calculus of Several Variables I
MATB42H Techniques of the Calculus of Several Variables II
[MATB44H] Differential Equations I or
MAT244H Ordinary Differential Equations

Third & Fourth Years - 6.0 credits
Teaching Concentration
ASTC22H Galactic and Extragalactic Astrophysics
PHYB20H Vibrations and Waves
PHY252H Thermal Physics
Two of:
AST20H History and Nature of Astronomical Discovery
AST21H Life on Other Worlds
AST22H Introduction to Astrophysics
AST22H Practical Astronomy
Four of:
PHYC24H Quantum Physics I
PHY205H Electronics Lab I
PHY207H Introduction to Computational Physics
PHYS15H Radiation on Planetary Atmospheres
PHY325H Modern Physics Laboratory
PHY340H Intermediate Biophysics
PHY351H Classical Mechanics
PHY352H Electromagnetic Theory
PSCB31H Introduction to Scientific Computing
An additional 1.0 credit from:
ENV235V Physics and Chemistry of Planet Earth
JFA305H Introduction to Archaeometry
JFA310H Physics and Archaeology
An additional 0.5 credit from AST or PHY D- or 400-level courses, including the following:
[PSCD01] The Physical Sciences in Contemporary Society
or
PHY341H The Physical Sciences in Contemporary Society
[PSCD02H] Current Questions in Mathematics and Science
or
PHY342H] Current Questions in Mathematics and Science

Astronomy and Physics Concentration
ASTC22H Galactic and Extragalactic Astrophysics
PHYB20H Vibrations and Waves
PHY252H Thermal Physics
[MATC46H] Differential Equations II
or
APM346H Differential Equations

Three of:
AST320H Introduction to Astrophysics
AST325H Practical Astronomy
AST420H Topical Astrophysics
AST425H Research Topic in Astronomy

Four of:
PHYC24H Quantum Physics I
PHYC26H Modern Physics Laboratory
PHYC31H Classical Mechanics
PHYC32H Electromagnetic Theory
PHYC33H Electromagnetic Waves
PHYC37H Nuclear and Particle Physics
PHYC38H Atoms, Molecules and Solids
PHSC11H Introduction to Scientific Computing

An additional 0.5 credit from AST or PHY D- or 400-level courses, including the following:
[PHSC01H] The Physical Sciences in Contemporary Society
or
PHY341H] The Physical Sciences in Contemporary Society
[PHSC02H] Current Questions in Mathematics and Science
or
PHY342H] Current Questions in Mathematics and Science

Physics Concentration

ASTC22H Galactic and Extragalactic Astrophysics
PHYB20H Vibrations and Waves
PHYC22H Thermal Physics
PHYC24H Quantum Physics I
[MATC46H] Differential Equations II
or
APM346H Differential Equations
PHYC32H Modern Physics Laboratory
PHYC33H Classical Mechanics
PHYC34H Electromagnetic Theory
PHYC35H Electromagnetic Waves
PHYC37H Nuclear and Particle Physics
or
PHYC38H Atoms, Molecules and Solids
or
PHYC491H Introduction to High Energy Physics

One of:
PHYC50H Electronics Lab I
PHYC50H Introduction to Computational Physics
PHYC50H Time Series Analysis
PHYC50H Quantum Methods Using Computer Algebra
PHSC07H Introduction to Scientific Computing

An additional 0.5 credit from AST or PHY D- or 400-level courses, including the following:
[PHSC01H] The Physical Sciences in Contemporary Society
or
PHY341H] The Physical Sciences in Contemporary Society
[PHSC02H] Current Questions in Mathematics and Science
or
PHSC01H Physical Sciences Project
or
PHYC342H] Current Questions in Mathematics and Science
MAJOR PROGRAM IN ASTROPHYSICS AND PHYSICS
Supervisor: C.C. Dyer (416-287-7296) Email: dyer@astro.utoronto.ca
The Major Program in Astrophysics and Physics combines introductory and more advanced work in the two areas along with essential mathematics courses. It is especially appropriate for students in the Physical Sciences Co-op Program or in the Concurrent Teacher Education Program (CTEP) who wish to pursue a Major Program strongly oriented towards physical phenomena in combination with another Major as part of degree and program requirements.

Program Requirements
8.0 full credits are required.

First Year:
ASTA01H1 Introduction to Astronomy and Astrophysics I: The Sun and Planets
ASTA02H1 Introduction to Astronomy and Astrophysics II: Beyond the Sun and Planets
MAT307H1 Calculus I
[MAT386H1 Calculus II for Physical Sciences or MAT378H1] Calculus II for Mathematical Sciences]
PHYA10H1 Introduction to Physics I
PHYA21H1 Introduction to Physics II

Second Year and Later Years:
ASTB21H1 Solar System and Stellar Astrophysics
CSCA20H1 Computer Science for the Sciences
MAT223H1 Linear Algebra I
MATB41H1 Techniques of the Calculus of Several Variables I
MATB42H1 Techniques of the Calculus of Several Variables II
PHYB10H1 Intermediate Physics Laboratory I
PHYB11H1 Electricity and Magnetism
And 1.5 credits from:
ASTC22H1 Galactic and Extragalactic Astrophysics
PHYB11H1 Intermediate Physics Laboratory II
PHYB20H1 Vibrations and Waves
PHYB25H1 Foundation of Modern Physics
PSCB31H1 The Instrumentation of Science
PSIC37H1 Introduction to Scientific Computing

SPECIALIST PROGRAM IN ENVIRONMENTAL PHYSICS
See the Environmental Sciences section of this Calendar for program requirements.

SPECIALIST PROGRAM IN NATURAL SCIENCES
See the Physical Sciences section of this Calendar for program requirements.

PHYA10H2 Introduction to Physics IA
The course is intended for students in physical, environmental and mathematical sciences. The core theme in this course is energy and energy conservation as a main concept of classical physics and its applications to macroscopic systems in one and three dimensions. This includes mechanical systems, fluid mechanics and energy in classical waves and oscillatory motion. Geometrical optics and some applications of modern optics, such as x-ray, will also be studied.
Exclusion: PHYA11H, PHY13H1, PHY13Y, PHY15H1, (PHY110Y), (PHY13Y)
Prerequisite: [Physics 12U - SPH4U (Grade 12 Physics) & Calculus and Vectors (MCV4U) & Advanced Functions (MHF4U) or (PHYA01H)]
Corequisite: MAT307H

PHYA11H3 Introduction to Physics IB
This first course in Physics at the university level is intended for students enrolled in the Life sciences. It covers fundamental concepts of classical physics and its applications to macroscopic systems in one and three dimensions. It deals with two main themes: which are Particle and Fluid Mechanics and Waves and Oscillations. The approach will be phenomenological with applications related to life and biological sciences.
Exclusion: PHYA10H, PHY13H1, PHY13Y, PHY15H1, (PHY110Y), (PHY13Y)
Prerequisite: Grade 12 Advanced Functions (MHF4U)
Corequisite: MATA20H1 or MATA30H1
Recommended preparation: Grade 12 Physics (SPH4U)
PHYA21H3 Introduction to Physics IIA
This course is intended for students in physical and
mathematical sciences. First Electricity and Magnetism
(including Electromagnetic theory) will be covered. This
provides students with an example of the concept of
unification which become a fundamental theme of Modern
physics. The second topic will be Nuclear physics, which
represents an important application of modern physics, and
Nuclear Magnetic Resonance (NMR) will serve as an
application of these concepts to real life.
Exclusions: PHYA21H, PHYA11Y, PHYA132H,
PHY135Y, PHY138Y, PHY152H
Prerequisites: PHYA100
Corequisites: MATA35H or MATA36H or MATA37H.
(MATA35H does not allow for many future programs in
science.)

PHYA22H3 Introduction to Physics IIIB
The course covers the main concepts of
Thermodynamics, Electricity and Magnetism and nuclear
radiation. It provides basic knowledge of these topics with
particular emphasis on its applications in life and
environmental sciences. It also covers some of the
applications of modern physics such as Atomic physics and
nuclear radiation.
Exclusions: PHYA21H, (PHY119Y), PHY132H,
PHY135Y, (PHY138Y), PHY152H
Prerequisites: PHYA100 or PHYA11H or (PHYA01H)
Corequisites: MATA21H or MATA35H or MATA36H or
MATA37H. (MATA21H & MATA35H do not allow for
many future programs in science.)

PHYB11H3 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.
Limited enrolment: 25
Exclusion: (PHYB21H)
Prerequisites: PHYA21H

PHYB11H3 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, solids, nuclear physics, and many future programs in
science.
Exclusion: (PHYB21H)
Prerequisites: PHYB11H
Corequisites: PHYB11H

PHYB21H3 Vibrations and Waves
We introduce the concept of Waves in general and some of
its applications. It covers the following topics: Harmonic
oscillation including forced & damped oscillation; Fourier
Series; Hamilton Principle & Lagrange Dynamics; Continuous
Systems (waves); Propagation of Waves; Energy transfer and
Electromagnetic waves.
Prerequisites: PHYA21H & [MATA36H or MATA37H]
Corequisites: MATB41H & MATB44H

PHYB21C3 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.
Exclusion: PHY241H, PHY251H
Prerequisites: PHYA21H & MATB41H
Corequisites: MATB42H

PHYB25H3 Foundation of Modern Physics
The course introduces the basic concepts of the Theory of
Relativity and the Quantum Theory.
Einstein's special theory of relativity will be discussed with
some applications. Then we will introduce the experimental
basis for the quantum theory and the properties of light and
wave function. Schrödinger equation will be introduced with some
applications in one dimension.
Exclusion: PHY256H, (PHYB248H)
Prerequisites: PHYA21H or PHYA22H or PHY132H or
(PHY138Y) or PHY152H

PHYC24H3 Quantum Physics I
The course builds on the basic concepts of quantum theory
students learned in PHYB25H. It extends the applications of
Quantum Mechanics to three dimensions including the study of
angular momentum. It describes the Heisenberg (Matrix)
formalism of quantum mechanics and its applications to spin
wave functions. It also introduces some approximation methods
that can be used to address more realistic problems in Molecular
and Nuclear Physics.
Exclusion: CHYM22H, PHYA357H
Prerequisites: PHYB25H or [(PHYB248H) & MATA23H]
Contemporary states and societies are beset by political crisis and change. Since the end of the Cold War and in the post-9/11 period, International relations are unstable and unpredictable and a new world order has yet to be constructed. The sovereignty of nation-states and their capacity to implement national policies of economic and social welfare are being transformed by transnational forces in the new global economy. Religions and ethnic nationalism divides many countries, and even in historically stable liberal democracies political mobilization by race, ethnicity, language, and gender challenge the legitimacy of established cultural and political relationships. Potentially catastrophic problems, such as exploding populations, proliferation of nuclear weapons, and environmental degradation, threaten the stability of national governments and international organizations to secure human survival. Dealing with these problems is a fundamental necessity for citizens and their governments. In its teaching, research, and community service, the discipline of Political Science seeks to help in meeting this need.

Political Science is the study of enduring issues of power and authority, citizenship and governance, justice and legitimacy in ancient and modern states and societies. The field of Political Science is divided into the following sub-fields: Canadian Politics, Comparative Politics (Developing and Developed Countries), International Relations and Political Theory. In the area of Canadian Politics, students learn about the political-economic-institutional foundations, political processes and public policies of Canada. Courses in Comparative politics deal with the problems of political change and development in areas such as Asia, Europe, Latin America, and the Middle East. Political participation and mobilization, transitions to democracy and ethnic and religious conflict are some of the themes dealt with in comparative politics courses. International relations is devoted to studying the foreign policies of particular nation-states and the patterns of conflict and co-operation among states. Political theory explores the ideas, such as justice and legitimacy, that are fundamental to political thought and practice, giving special attention to reading and interpreting the classic expositions of politics from ancient Greek philosophers to post-modern social theorists.

Guidelines for 1st year course selection
Students who intend to complete the Political Science or Public Policy programs should include the following in their 1st year course selection:

- Political Science: One full credit at the A-level in Political Science. Public Policy: SOC401H, SOC402H & one of the Computer Science courses listed in Requirement 1 of the program.

SPECIALIST PROGRAM IN POLITICAL SCIENCE

Program Requirements
Students must complete at least ten full credits in Political Science including:

1. One full credit from among the A-level political science courses (no more than one full credit at the A-level may be counted towards the program requirements).

2. POLB801H Classic Texts in Political Theory I and POLB811H Classic Texts in Political Theory II

3. POLB501H Canada’s Political Institutions and POLB521H Canadian Politics: Connecting Citizens and Governments

4. At least four of the following (two full credits):
   - POLB801H Introduction to International Relations
POL881H International Conflict and Conflict Management
POL908H Comparative Development in International Perspective
POL211H Comparative Politics: Revolution, Democracy and Authoritarianism in Modern Europe
POL951H Comparative Politics: Ethnic Conflict and Democratization in Europe after the Cold War

5. Five full credits in political science at the B-, C- and/or D-level, four of which must be at the C- and/or D-level

MAJOR PROGRAM IN POLITICAL SCIENCE

Program Requirements
Students must complete at least seven full credits in Political Science as follows:

1. One full credit from among the A-level political science offerings (no more than one full credit at the A-level may be counted towards the program requirements).

2. POL850H Classic Texts in Political Theory I and
   POL851H Classic Texts in Political Theory II

3. POL850H Canada's Political Institutions and
   POL852H Canadian Politics: Connecting Citizens and Governments

4. At least four of the following (two full credits):
   POL889H Introduction to International Relations
   POL811H International Conflict and Conflict Management
   POL895H Comparative Development in International Perspective
   POL911H Comparative Development in Political Perspective

5. POL953H Comparative Politics: Revolution, Democracy and Authoritarianism in Modern Europe
   POL951H Comparative Politics: Ethnic Conflict and Democratization in Europe after the Cold War

MINOR PROGRAM IN POLITICAL SCIENCE

Program Requirements
The Program requires the completion of at least four full credits above the A-level in Political Science. At least two of these must be at the C- or D-level. There are two options: either the four full credits must be taken from any one of the fields listed below (e.g. Canadian Government); or two credits must be taken from each of any two of these fields (e.g. two credits in International Relations, two credits in Comparative Politics).


MAJOR PROGRAM IN PUBLIC POLICY

The Major Program in Public Policy equips students with the analytical and methodological skills to secure employment as policy analysts in government, business, and non-governmental sectors, or to continue graduate training in public policy.

The Program is cross-disciplinary, public policy analysis is the exercise of applying the theoretical frameworks and positivist and interpretive methodologies of the social sciences and humanities to understand the development, implementation, and evaluation of public policy. It requires the ability to think clearly and critically, to design and execute research projects, to analyze both quantitative and qualitative data, and to write clearly. It also requires an understanding of the context, institutions, and processes of policy-making and implementation, as well as concepts and criteria for policy evaluation.

Program Requirements
Students must pay careful attention to the prerequisites for higher level courses.
Course requirements:
Students must complete 7.5 full credits from the following list:

1. 0.5 credit in Computer Science: one of:
   - CSCIAC001H Introduction to Computer Programming
   - CSCIAC2H1 Computer Science for the Sciences
   - CSCIAC4H1 Introduction to Computer Science

2. SOCAC01H Introduction to Sociology I
   - SOCAC02H Introduction to Sociology II

3. 1.5 credits in Research Methods. At least 0.5 credit must be at the C-level:
   - ANTC31H Quantitative Methods in Anthropology
   - ECMB21H1 Quantitative Methods in Economics I
   - ECMB22H2 Quantitative Methods in Economics II
   - ECMB20Y1 Quantitative Methods in Economics
   - ECMB11H1 Introduction to Regression Analysis
   - GRAA30H1 Geographic Information Systems (GIS) and Empirical Reasoning
   - GRC474H Introduction to Research in Human Geography
   - PSYB07H1 Data Analysis in Psychology
   - SOCB05H1 Logic of Social Inquiry
   - SOCB06H1 Social Statistics
   - SOCC33H1 Practicum in Qualitative Research Methods
   - SOCC33H1 Practicum in Quantitative Research Methods
   - STAT22H1 Statistics I

Many of these courses have prerequisites; please plan accordingly. In addition, it is advisable to take methods courses from within your disciplinary major program.

4. 0.5 credit in Social Theory
   - POLC701H Political Analysis I

5. POLB30H1 Canada's Political Institutions
   - POLB20H1 Canadian Politics: Connecting Citizens and Governments

6. 0.5 credit from among the following:
   - CITB20H1 Canadian Cities and Planning
   - ECMB35H1 Public Decision-Making
   - ECMB36H1 Economic Aspects of Public Policy

7. POLC60H1 Public Policy-Making
   - POLC67H1 Public Policy in Canada

8. 1.0 credit at the C- or D-level from among the following list:
   - ANTC21H1 Political Anthropology
   - ANTC61H1 Medical Anthropology: Illness and Healing in Cultural Perspective
   - ANTC62H1 Medical Anthropology II: Biological and Demographic Perspectives
   - ECMB31H1 Economics of the Public Sector: Taxation
   - ECMB32H1 Economics of the Public Sector: Expenditures
   - ECMB38H1 The Economics of Canadian Public Policy
   - ECMB51H1 Labour Economics I
   - ECMB52H1 Labour Economics II
   - GRC400H1 Urban Residential Geography
   - GRC413H1 Urban Political Geography
   - GRC468H1 Urban Transportation Policy Analysis
   - GRC485H1 Issues in Rural Development
   - GRC433H1 The Toronto Region
   - GCCD00H1 Countryside Conservation
   - HISC45H1 Immigrants and Race Relations in Canadian History
   - HIDS46H1 Selected Topics in Canadian Women's History
   - MITC42H1 Public Management
   - POLC33H1 Canadian Environmental Politics I
   - POLC34H1 Intergovernmental Relations in Canada
   - POLC55H1 Politics of Canadian Health Care Policy
   - POLC57H1 Intergovernmental Relations and Public Policy
   - POLC80H1 The New International Agenda
   - POLD50H1 Political Interests, Political Identity, and Public Policy
   - POLD71H1 Canadian Political Ideas I
   - POLD72H1 Canadian Political Ideas II
   - POLD798H1 Political Analysis II
POLD88H Exploring the New International Agenda
SOCI291H Sociology of Gender and Work
SOCI292H Comparative Ethnic and Race Relations
SOCI292H Sociology of Urban Growth
SOCI371H Environment and Society
VPA115H Cultural Policy: National and International Perspectives
9. A D-level course in Public Policy. Any of POLD501H, POLD511H, POLD641H, or POLD98H

Students are encouraged to take ENG101H (Introduction to Literary Study: World Literature) and/or ENG111H (Introduction to Literary Study: 1890 to World War II).
ENG108H (Critical Writing about Literature).

MAJOR (CO-OPTERATIVE) PROGRAM IN PUBLIC POLICY

Co-op Contact: askcoop@utoronto.ca

The Co-operative Program in Public Policy is a work-study program which combines academic studies in various disciplines with work terms in public enterprises, the private sector, and non-governmental organizations. Two work terms, each of four months duration, must be completed along with the academic Program. An optional, third work term may be completed with the permission of the Co-op Co-ordinator.

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 their training in public policy. The Program is cross-disciplinary, public policy analysis is the exercise of applying theoretical frameworks and the positivist and interpretative 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.

The Co-operative Program in Public Policy is designed to be completed in conjunction with a Major or Specialist Program in another discipline and may only be taken as part of a forty course honours degree.

For information on fees, work terms and standing in the Program, please see the Co-operative Programs section of this Calendar.

Program Admission

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

Current U of T Scarborough students: Application procedure can be found at the Registrar's Office website at: www.utoronto.ca/subject/pc. The minimum qualifications for entry are 4.0 credits plus a cumulative GPA of at least 2.5.

Program Requirements

Work Placement

To be eligible for the first work term, students must have completed at least 10 credits, including 5.0 credits as a University of Toronto Scarborough student including those specified below and have completed the Arts & Science Co-op Work Term Preparation course.

Course Requirements

See requirements for Major Program in Public Policy above.

Courses to be completed before the first work term:

Year 1
1. One of:
   - (FSCA101H) The Why and How of Computing
   - CS1A08H Introduction to Computer Programming
   - C1A01H Computer Science for the Sciences
   - CS3A01H Introduction to Computer Science
2. SOCA201H Introduction to Sociology I
3. SOCA202H Introduction to Sociology II
3. Prerequisite to Statistics course (if not STAB22H1 or SOCI206H1)

Year 2
1. POLS500H Canada's Political Institutions
2. POLS521H Canadian Politics: Connecting Citizens and Governments
3. One of:
   - C1TH21H Canadian Cities and Planning
   - ECMB535H Public Decision Making
   - ECMB536H Economic Aspects of Public Policy
   - S0CC22H1 Practicum in Qualitative Research Methods
   - S0CC23H1 Practicum in Quantitative Research Methods
4. Statistics course
POLA1H3 Critical Issues of Canadian Democracy
This course examines some issues critical to the well-being of Canadian democracy. The issues may change from year to year but will normally include citizen participation, ethical conduct in political life, national unity, and North American regionalism.

POLA7H3 Politics in Literature
This course is an introduction to political, social and economic themes arising from imaginative literature. Authors and topics covered will vary from year to year.

POLA8H3 Cultures of Conflict: Politics, Society and War Since 1812
This course examines political and social attitudes towards war, and their underlying causes, during the 19th and 20th Centuries, as portrayed in film, literature, and historical writing. Wars examined include the War of 1812, World Wars I and II, and the Vietnam War.

POLA8H3 Leaving Home: Politics and Emigration
This course provides a study of the causes and patterns of emigration in the twentieth century. The course examines the variety of political factors (war and revolution, ethnic/racial discrimination, poverty, dilemmas of conscience) that triggered emigration in the twentieth century. Sources include political and historical works, novels and films.

POLA8H3 Exploring Globalization
This course introduces students to a series of issues in global politics and their consequences for Canadian citizens, including the globalizing economy, terrorism, and environmental degradation. The course probes how these major issues are beginning to change the landscape of world politics and present challenges to political authority and collective identity. Exclusion: (POL.100Y) (POL.102Y)

POLA8H3 Globalisation and Governance
This course turns to questions of governance in the context of an increasingly globalized world. The course examines the legitimacy and accountability of international organizations, such as the World Trade Organization, and focuses on the rise of new forms of political activism, such as citizen groups and NGOs. Exclusion: (POL.100Y) (POL.102Y)

POLA9H3 Politics, Corruption and Violence
This course uses basic tools in comparative political analysis to examine the origins, dynamics and relationship between corruption and violence in less developed countries. Discussion will be placed in the context of recent developments in the global economy and of their political and social consequences within a variety of country case studies. The course will conclude with some reflections on non-violent alternatives to political action.

POLB5H3 Canada's Political Institutions
This course examines the institutional foundations of Canadian government. The constitution, the executive, Parliament, the public service, the federal system, the Charter of Rights and Freedoms, and the courts are discussed, with emphasis on their role in democratic and responsible government. Exclusion: (POL.100Y), (POL.102Y), (POL.214Y)
Prerequisite: Any 4.0 credits

POLB5H3 Canadian Politics: Connecting Citizens and Governments
This course examines the participatory vehicle and processes through which Canadian citizens seek to render their government responsive and responsible. Political parties, the electoral system, interest groups, new social movements, Quebec nationalism and aboriginal self-determination are given attention. Exclusion: (POL.100Y), (POL.102Y), (POL.214Y)
Prerequisite: POL.050H1
Note: It is strongly recommended that students take POL.050H1 and POL.052H1 in consecutive sessions.

POLB7H3 Classic Texts in Political Theory I
This course examines central political texts from the ancient Greeks to the Renaissance, including Plato’s Republic, Aristotle’s Politics, Machiavelli’s The Prince. Exclusion: POL.200Y
Prerequisite: Any 4.0 credits

POLB7H3 Classic Texts in Political Theory II
This course examines texts from the Glorious Revolution to the French Revolution, including Hobbes’ Leviathan, Locke’s Second Treatise, Rousseau’s Social Contract and the Discourse on Inequality. Exclusion: POL.200Y
Prerequisite: POL.170H1
Note: It is strongly recommended that students take POL.170H1 and POL.171H1 in consecutive sessions.

POLB8H3 Introduction to International Relations
This course examines different approaches to international relations, the characteristics of the international system, and the factors that motivate foreign policies. Exclusion: POL.208Y
Prerequisite: Any 4.0 credits

POLB8H3 International Conflict and Conflict Management
This course provides a study of the role of international institutions in managing conflict and co-operation at the international level. Exclusion: POL.208Y
Prerequisite: POL.800H1
Note: It is strongly recommended that students take POL.800H1 and POL.801H1 in consecutive sessions.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>POLB3H3</td>
<td>Comparative Development in International Perspective</td>
<td>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, multinational 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.</td>
<td>Exclusion: POL 201Y; Prerequisite: Any 4.0 credits</td>
</tr>
<tr>
<td>POLB9H1</td>
<td>Comparative Development in Political Perspective</td>
<td>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.</td>
<td>Exclusion: POL 201Y; Prerequisite: POL B9H1</td>
</tr>
<tr>
<td>POLB3H2</td>
<td>Comparative Politics: Revolution, Democracy and Authoritarianism in Modern Europe</td>
<td>This course explores the origins of modern political institutions in Europe through an examination of revolutions, democracy, and authoritarianism 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.</td>
<td>Exclusion: POL 316Y; Prerequisite: Any 4.0 credits</td>
</tr>
<tr>
<td>POLB9H2</td>
<td>Comparative Politics: Ethnic Conflict and Democratization in Europe After the Cold War</td>
<td>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. The first part of the course will cover theories of democratization, ethnic conflict as well as the role of the European Union while the second part of the course focuses on specific cases.</td>
<td>Exclusion: POL B9H2; Prerequisite: Any 4.0 credits</td>
</tr>
<tr>
<td>POLC4H3</td>
<td>Current Topics in Politics</td>
<td>Topics will vary depending on the instructor.</td>
<td>Exclusion: POL 414H; Prerequisite: One B+ level full credit in Political Science</td>
</tr>
<tr>
<td>POLC4H3</td>
<td>Current Topics in Politics</td>
<td>Topics will vary depending on the instructor.</td>
<td>Exclusion: POL 414H; Prerequisite: One B+ level full credit in Political Science</td>
</tr>
<tr>
<td>POLC5H3</td>
<td>Canadian Environmental Politics</td>
<td>This course examines the ideas and success of the environmental movement in Canada. The course focuses on how environmental policy in Canada is shaped by the ideas of environmentalists, economic and political interests, public opinion, and Canada's political-institutional framework. Combined lecture-seminar format.</td>
<td>Exclusion: POL 320Y; Prerequisite: POL B7H1; or POL C5H3</td>
</tr>
<tr>
<td>POLC5H3</td>
<td>Intergovernmental Relations in Canada</td>
<td>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, its history, and the federal system. The legitimacy and performance of the federal system are appraised.</td>
<td>Exclusion: POL 516Y; Prerequisite: POL C5H3 or POL B5H3</td>
</tr>
<tr>
<td>POLC5H3</td>
<td>The Politics of Canadian Health Policy</td>
<td>This course examines Canadian health care policies and potential solutions. The impact on health care policies of the interests of health care providers, federal and political parties.</td>
<td>Exclusion: POL 516Y; Prerequisite: POL C5H3 or POL B5H3</td>
</tr>
<tr>
<td>POLC5H3</td>
<td>Intergovernmental Relations and Public Policy</td>
<td>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.</td>
<td>Exclusion: POL 516Y; Prerequisite: POL C5H3 or POL B5H3</td>
</tr>
<tr>
<td>POLC5H3</td>
<td>Public Policy Making</td>
<td>This course provides a study of current theories of public policy-making and the processes that are involved in making public policies. Policy processes of agenda setting, choosing governing instruments, making public decisions, and implementing and evaluating governmental programs are examined using specific cases of public policy-making in Canada.</td>
<td>Exclusion: POL 516Y; Prerequisite: POL C5H3 or POL B5H3</td>
</tr>
<tr>
<td>POLC5H3</td>
<td>Public Policy in Canada</td>
<td>This course is a survey of contemporary patterns of public policy in Canada. Selected policy studies including managing the economy, post-war stabilization policies, the rise of global capitalism, developments in the Canadian welfare state, and approaches to external relations and national security in the new international order.</td>
<td>Exclusion: POL 516Y; Prerequisite: POL C5H3 or POL B5H3</td>
</tr>
<tr>
<td>POLC5H3</td>
<td>Modern Political Theory I</td>
<td>This course is a study of the major political philosophers of the nineteenth century, including Hegel, Marx, J.S. Mill and Nietzsche.</td>
<td>Exclusion: POL 516Y; Prerequisite: POL C5H3 or POL B5H3</td>
</tr>
<tr>
<td>POLC7H3</td>
<td>Contemporary Political Thought</td>
<td>This course is a study of the major political philosophers of the twentieth century. The theories covered will vary from year to year.</td>
<td>Exclusion: POL 516Y; Prerequisite: POL B7H1; or POL C7H3</td>
</tr>
</tbody>
</table>
POLC76H3 Women in Political and Social Thought II
This course explores male theorists’ views of the role of women in state, society, and family and current feminist rethinking of the roles assigned them. The focus of the course is on current feminist reinterpretations of classical texts.
Exclusion: JPP343Y
Prerequisite: Any 4.0 credits

POLC77H3 Women in Political and Social Thought II
This course examines twenty-first century female thinkers, feminists and non-feminists. Exclusion: JPP343Y
Prerequisite: POLC76H

POLC86H3 Political Analysis I
This course examines the methods of analysis used in the literature on politics. The course teaches students to identify underlying assumptions, to differentiate good from poor logic of arguments, to distinguish between adequate and inadequate use of evidence and between warranted and unwarranted conclusions.
Prerequisite: One full credit in Political Science

POLC88H3 The Formulation of American Foreign Policy
This course examines the process by which American foreign policy is formulated.
Exclusion: POL326Y
Prerequisite: One full credit from: POLB80H, POLB81H, POLC92H, POLC93H

POLC89H3 The Application of American Foreign Policy
This course examines the foreign policy of the United States by analyzing its context and application to a number of specific regions and problems in the world.
Exclusion: POL326Y
Prerequisite: One full credit from: POLB80H, POLB81H, POLC92H, POLC93H

POLC84H3 Canadian Foreign Policy I
This course introduces Canadian foreign policy since 1945.
Exclusion: POL122Y
Prerequisite: POLB50H & POLB52H & POLB80H & POLB81H

POLC85H3 Canadian Foreign Policy II
This course considers the issues and influences which have determined Canadian foreign policy.
Exclusion: POL122Y
Prerequisite: POLC84H

This course examines the rise and the collapse of the first Communist state. Topics include the Stalinist dictatorship and de-Stalinization, the planned economy and the black market, ethnic politics and dissent. Particular attention is paid to the attempt to reform communism before 1991.
Exclusion: POL204Y
Prerequisite: One B-level full credit in Political Science

POLC77H3 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.
Prerequisite: POLB80H & POLB81H

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.
Prerequisite: POLB80H & POLB81H or equivalent

POLC89H3 Politics and Government in Post-Communist Russia
The course examines the attempt to create democracy and a market economy in post-communist Russia. Topics include federalism and regional politics, organized crime, the decline of the welfare state, and Russia’s place in the world.
Exclusion: POL204Y
Prerequisite: One B-level full credit in Political Science

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 mainstays theoretical approaches to development studies and a critical examination of development practice in historical perspective. Seminar format.
Prerequisite: POLB50H & POLB51H

POLC91H3 Latin America: Dictatorship and Democracy
This course explores the origins of Latin America’s cycle of brutal dictatorships and democratic rule. It examines critically the assumption that Latin American countries have made the transition to democratic government.
Exclusion: POL350Y
Prerequisite: POLB50H & POLB51H or equivalent

POLC92H3 The American Political Process
This course analyzes the American federal system and the institutions and processes of government in the United States.
Exclusion: POL203Y
Prerequisite: One full credit in Political Science at the B-level

POLC93H3 Public Policies in the United States
This course focuses on selected policy issues in the United States.
Exclusion: POL203Y
Prerequisite: One full credit in Political Science at the B-level
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.
Prerequisite: POLB90H1

POLC95H3 International Political Economy of Trade
This course examines why countries trade and how international exchange is affected by domestic and international structures. Grand theories of international political economy are surveyed for this purpose, and recent perspectives and issues related to the organization of world trade are reviewed.
Prerequisite: [POLB90H1 & POLB91H] or equivalent; familiarity with basic economic concepts is recommended

POLC96H3 Politics and Society in the Middle East I
This course examines politics and society in the contemporary Middle East with a focus on understanding the region’s resistance to economic and political liberalization. Topics covered include the role of external actors in the creation and evolution of the Middle East state system, the nature of authoritarian methods of statecraft in both republics and monarchs, the developmental efforts of oil revenues, and the prospects for both secular and Islamist social protest movements.
Prerequisite: POLB90H1 & POLB91H

POLC97H3 Politics and Society in the Middle East II
This course covers contemporary issues in Middle East politics. Topics include the politics of co-operation and competition, the impact of economic and political liberalization, civil society politics with respect to women, human rights and the environment, and the impact of globalization on the region.
Prerequisite: POLB90H1 & POLB91H

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.
Exclusion: PCL305Y
Prerequisite: [POLB90H1 & POLB91H] or equivalent

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.
Limited enrolment: 15
Exclusion: POLD01H may not be taken after or concurrently with POLD78H1.
Prerequisite: 2.0 credits in Political Science and a cumulative GPA of at least 3.2.
Corequisite: POLC78H1 is recommended but not required.

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.
Prerequisite: POLA51H1 or [POLB50H1 & POLB51H]

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.
Limited enrolment: 25
Prerequisite: POLB50H1 & POLB51H

POLD54H3 Comparative Public Policy
This seminar course explores some of the major approaches to the comparative analysis of public policies of industrialized countries. The course uses a combination of case studies and theoretical literature to examine selected social and economic public policies and policy making in Europe, Canada, and the United States.
Prerequisite: 1.0 credit at the B- or C-level in comparative or Canadian politics.

POLD71H3 Canadian Political Ideas I
This course introduces students to the ideas informing Canadian political movements and parties.
Limited enrolment: 25
Prerequisite: One full credit from: POLB50H1, POLB52H, POLB78H1, POLB71H or equivalent

POLD72H3 Canadian Political Ideas II
This course is an in-depth examination of the ideas informing Canadian political movements and parties.
Limited enrolment: 25
Prerequisite: POLD71H1

POLD78H3 Political Analysis II
This seminar course is intended for students interested in deepening their understanding of methodological issues that arise in the study of politics. In addition to class readings, students will write reviews of published work and will work to design their own research projects.
Limited enrolment: 25
Prerequisite: POLC78H
POLS871H1 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 the behaviour of states in the international realm.

Limited enrolment: 20
Prerequisite: POLS8H1 & POLS811H

POL883H3 Exploring the New International Agenda

This course examines in depth the broad set of new issues on the international agenda: terrorism, non-proliferation, human security, women’s issues, human rights and others. It emphasises in-class participation, and student presentations.

Limited enrolment: 25
Prerequisite: POLS881H

POL890H3 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.

Limited enrolment: 25
Prerequisite: A social sciences or humanities course on the global south or on development

Psychology (B.Sc.)

Faculty List

G.B. Bakerman, B.Sc. (CUNY), Ph.D. (NYU), Professor Emeritus
J.E. Foley, B.A., Ph.D. (Sydney), Professor Emeritus
B. Foris, B.A. (Toronto), M.A., Ph.D (Michigan), Professor Emeritus
A. Kuha, A.B., M.A., Ph.D. (UCLA), Professor Emeritus
M.C. Sneider, B.A. (Toronto), Ph.D. (MIT), Professor Emeritus
J.E. Best, B.A. (McGill), Ph.D. (Cornell), Professor
G.C. Cusick, B.A. (Michigan), M.A., Ph.D. (Wisconsin), Professor
K.K. Doan, B.A. (Wellesley), Ph.D. (Minnesota), Professor
K.N. Durbar, B.A. (University College Dublin), Ph.D. (Toronto), Professor
G.O. Ivy, B.A. (Drew), Ph.D. (California), Professor
S. Johnson, B.A. (New Brunswick), M.A., Ph.D. (Waterloo), Professor
J.M. Kennedy, B.Sc., M.Sc. (Belfast), Ph.D. (Cornell), Professor
N.W. Milgram, B.A. (UCLA), M.A., Ph.D. (McGill), Professor
T.L. Petit, B.Sc., M.A. (Lancaster), Ph.D. (Florida), Professor
L.A. Pettit, B.Sc. (Ramusco State College), M.Sc. (NYU), Ph.D. (Harvard), Professor
M.A. Schuck, B.A. (SUNY-Binghamton), Ph.D. (Cornell), Professor
S. Seb, B.Sc. (Wilfrid Laurier), M.A., Ph.D. (Concordia), Associate Professor
M.A. Touchton, B.A., Ph.D. (McGill), Associate Professor
M. Normie, B.A. (McGill), Associate Professor
R. Smith, B.A. (Carleton), M.Sc. (Alberta), Ph.D. (Alberta), Associate Professor
K.K. Zolovitch, B.A., M.A., Ph.D. (York), Associate Professor
D.W. Hally, B.A. (University of Toronto), M.A. (San Francisco), Ph.D. (Albuquerque), Assistant Professor
M. Anil, B.Sc. (McGill), M.Sc., Ph.D. (Brown), Assistant Professor
D. Nussbaum, B.A., M.A. (York), Ph.D. (Waterloo), Assistant Professor
E. Page-Gould, B.Sc. (Carnegie Mellon), Ph.D. (UC-Berkeley), Assistant Professor

POL894H3 Selected Topics on Developing Areas

Topics vary according to instructor.
Prerequisite: A Social Sciences or Humanities course on the Third World or Development.

POL895H3 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 POLS895H1 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 Instructor of Studies must approve the research proposal prior to the first day of classes for the Winter Session.
Prerequisite: Permission of the instructor

POL899H3 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.
Exclusion: POL495Y
Prerequisite: One B-level course in Political Science & permission of the instructor.
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 PSYD98Y (thesis course) in their undergraduate Program.

Two co-operative programs are offered, the Specialist (Co-operative) Program in Psychology and the Specialist (Co-operative) Program in Mental Health Studies. Admission to these programs which involve practical work experience is limited.

The Major Program in Psychology and the Major Program in Mental Health Studies are designed to introduce students to the main areas within each of these related disciplines. The Minor Program in Psychology is designed for students who are interested in a less intensive exposure to the field. Often, students wish to concentrate their studies in two areas, in which case a double Major Program combining psychology with another discipline is ideal. Programs in Mental Health Studies and Psychology cannot, however, be combined.

Students particularly interested in the relation of brain to behaviour should consider the Neuroscience Programs described earlier in this Calendar.

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 PSYB07H and PSYD18H be taken consecutively in the two terms of second year.

Students should be aware that with the exception of PSY100Y and 299H, courses in the Faculty of Arts and Science correspond to B-, C-, or D-level and all 400-series are not necessarily considered D-level. Students are encouraged to plan carefully so that they will meet their educational objectives over the years of their degree. Discussions with the Program Supervisor can be very valuable in this regard.

Program Exclusion

Programs in Mental Health Studies and Psychology cannot be combined.

First-Year Students in Psychology

PSYA01H & PSYA02H are recommended in first year for students intending to pursue a Specialist or Major Program in Psychology or Mental Health Studies.

Courses in Neuroscience

Students interested in including Neuroscience courses in their Psychology or Mental Health Studies Program should consult the Neuroscience section for details.

Science Engagement Courses

For science experiential learning through community outreach (SCIB01H), classroom in-reach (SCIB02H) and team research, please see the Science Engagement section of this Calendar.
SPECIALIST PROGRAM IN MENTAL HEALTH STUDIES

Program Supervisor: G. Cree Email: psychology-program-supervisor@mnc.utoronto.ca
Course Support & Program Advisor: Hanan Kayyali Email: kayyali@mnc.utoronto.ca

Program Requirements

The program requires completion of 12.5 credits as follows:

a) 10.5 credits in Psychology:

1. PSYA01H Introductory Psychology: Part I
   (1.0 credit)
2. Statistical Methods (1.0 credit)
   a) PSYB07H Data Analysis in Psychology
      and
   b) PSYC08H Advanced Data Analysis in Psychology
3. Laboratory Methods (1.0 credit)
   a) PSYB01H Psychological Research Laboratory
      and
   b) PSYC37H Psychological Assessment
4. PSYC02H Scientific Communication in Psychology
   (0.5 credit)
5. History & Approaches (0.5 credit)
   a) PSYC84H Psychology & the Scientific Mind
      or
   b) PSYC85H History of Psychology
6. PSYB32H Personality and
   PSYB32H Abnormal Psychology
   (1.0 credit)
7. Students are required to take 2.0 credits from either the psycho-social grouping or the psycho-biological grouping listed below, as well as 1.0 credit from the other (3.0 credits):
   a) Psycho-Social Grouping
      PSYB45H Behaviour Modification
      PSYC18H The Psychology of Emotion
      PSYC55H Advanced Personality Psychology
      PSYC66H Psychotherapy
      PSYC99H Psychology and the Law
   b) Psycho-Biological Grouping
      PSYB64H Physiological Psychology
      PSYB66H Human Brain & Behaviour
      PSYC31H Clinical Neuropsychology
      PSYC33H Neuropsychological Rehabilitation
      PSYC62H Drugs and the Brain
8. Students are required to take 1.0 D-level credit, with at least 0.5 from the following list (1.0 credit)
   a) PSYD30H Current topics in Personality Psychology
   b) PSYD33H Current topics in Abnormal Psychology
   c) PSYD35H Clinical Psychopharmacology
9. Additional credits in Psychology (1.5 credits)
   b) Other disciplines (2.0 credits)
   Students must select 2.0 credits from the following courses:
   HLTH01H Health, Aging, and the Life Cycle
   HLTH02H Issues in Child Health and Development
   HLTH03H Foundations in Health Studies
   HLTC02H Women and Health: Past and Present
   LINR01H Sociolinguistics
   PHIL11H Introduction to Ethics
   PHIL07H Happiness and Freedom
   PHIL09H Biomedical Ethics
   SOCX01H Introduction to Sociology I
   SOCX02H Introduction to Sociology II
   SOCX48H Family and Society
   SOCB50H Deviance and Normality I
   SOCB51H Deviance and Normality II
   SOCC30H Criminal Behaviour
SPECIALIST (CO-OPERATIVE) PROGRAM IN MENTAL HEALTH STUDIES

Program Supervisor: G. Crec Email: psychology program supervisor@utsc.utoronto.ca
Course Support & Program Advisor: Hazan Kayali Email: kayali@utsc.utoronto.ca

The Program combines academic studies in the field of mental health with practical work experience. The work experience provided by the program enables students to explore career opportunities relevant to their studies in mental health. Completion of the program does not, however, represent a professional qualification in psychology, which requires further study at the graduate level. Work settings may also provide students with the opportunity to observe and assist psychologists engaged in clinical practice, hence providing a broader and more informed basis for the selection of a post graduate program appropriate to the student's talents and interests. Some work settings may provide the opportunity for clinical engagement under close supervision. For information on admissions, fees, work terms and standing in the Program, please see the Co-operative Programs section of this Calendar.

Program Admission
Prospective Applicants: For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post secondary institution, see the Co-operative Programs section in this Calendar. Current U of T Scarborough students: Application procedures can be found at the Registrar’s Office website at: www.utsc.utoronto.ca/undergrad. The minimum qualifications for entry are 4.0 credits including PSY A01H & PSY A02H plus a cumulative GPA of at least 2.75.

Program Requirements

Work Terms
The program requires eight four month terms of study and two four month work terms over a four year period. To be eligible for their first work term, students must have completed at least 10.0 credits, including PSY B01H, PSY B07H, PSY C02H and PSY C08H, and the non-credit Arts & Science Co-op Work Term Preparation course. Certain other courses specified below before the first work term is undertaken.

To be eligible for their second work term, students must have completed at least 12.5 credits, including certain courses specified below, and have received satisfactory evaluation for their performance and for their report on their first work term.

Course Requirements
The program requires 13.0 credits as follows:

a) 11.0 credits in Psychology:
   1. PSY A01H Introductory Psychology: Part I
      and
      PSY A02H Introductory Psychology: Part II
      (1.0 credit)
   2. Statistical Methods (1.0 credit)
      a) PSY B07H Data Analysis in Psychology* and
      b) PSY C08H Advanced Data Analysis in Psychology*
   3. Laboratory Methods (1.5 credits)
      a) PSY B01H Psychological Research Laboratory* and
      b) PSY C02H Clinical Neuropsychology Laboratory* and
      c) PSY C03H Psychological Assessment** and
   4. PSY C02H Scientific Communication in Psychology* (0.5 credit)
   5. History & Approaches (0.5 credit)
      a) PSY C04H Psychology & the Scientific Mind or
      b) PSY C05H History of Psychology
   6. PSY B02H Personality and
      PSY B03H Abnormal Psychology* (1.0 credit)
   7. Students are required to take 2.0 credits from either the psycho-social grouping or the psycho-biological grouping, listed below, as well as 1.0 credit from the other (1.0 credits):
      a) Psycho-Social Grouping
         PSY B05H Behaviour Modification
         PSY C01H The Psychology of Emotion
         PSY C03H Advanced Personality Psychology
PSYC36H1 Psychotherapy
PSYC39H1 Psychology and the Law
b) Psycho-Biological Grouping
PSYB44H1 Physiological Psychology
PSYB65H1 Human Brain & Behaviour*
PSYC33H1 Neuropsychological Rehabilitation**
PSYC62H5 Drugs and the Brain
8. Students are required to take 1.0 D-level credits, with at least 0.5 credit from the following list
PSYD68H1 Current topics in Personality Psychology
PSYD33H1 Clinical Psychopharmacology
9. Additional credits in Psychology (1.5 credits)
a) PSYD95H1 Psychology and Its Applications: Advanced Seminar
b) Students must choose 1.0 further credit from any of the remaining courses in Psychology

Other disciplines (2.0 credits)
Students must select 2.0 credits from the following courses:
HLTB01H1 Health, Aging, and the Life Cycle
HLTB02H1 Issues in Child Health and Development
HLTB03H1 Foundations in Health Studies
HLTC02H1 Women and Health: Past and Present
LINK20H1 Sociolinguistics
PHLA11H1 Introduction to Ethics
PHL080H1 Happiness and Freedom
PHLB01H1 Biomedical Ethics
SOCB11H1 Introduction to Sociology I
SOCB21H1 Introduction to Sociology II
SOCB48H1 Family and Society
SOCB51H1 Deviance and Normality I
SOCB53H1 Deviance and Normality II
SOCI31H1 Criminal Behaviour

* These credits must be successfully completed before the first work term,
** These credits must be successfully completed before the second work term,

MAJOR PROGRAM IN MENTAL HEALTH STUDIES
Program Supervisor: G. Crow. Email: psychology-program-supervisor@utsc.utoronto.ca
Course Support & Program Advisor: H. Kayyali. Email: kayyali@utsc.utoronto.ca

Program Requirements
The program requires 7.6 credits as follows:

1. PSYA01H1 Introductory Psychology; Part I
   and
   PSYA02H1 Introductory Psychology: Part II
   (1.0 credit)
2. PSYB07H1 Data Analysis in Psychology
   (0.5 credit)
3. Laboratory Methods (1.0 credit)
   a) PSYB00H1 Psychological Research Laboratory
      and
      PSYC37H1 Psychological Assessment
      (1.0 credit)
   b) PSYB03H1 Personality
      and
      PSYB23H1 Abnormal Psychology
      (1.0 credit)
   c) Students are required to take 1.0 credit from either the psycho-social grouping or the psycho-biological grouping listed below, as well as 0.5 credit from the other group (1.5 credits):
      a) Psycho-Social Grouping
         PSYB45H1 Behaviour Modification
         PSYC13H1 The Psychology of Emotion
         PSYC35H1 Advanced Personality Psychology

PSYC35H Psychotherapy
PSYC39H Psychology and the Law
b) Psycho-Biological Grouping
PSYB46H Physiological Psychology
PSYB55H Human Brain & Behaviour
PSYC31H Clinical Neuropsychology
PSYC33H Neuropsychological Rehabilitation
PSYC26H Drugs and the Brain
c) Additional credits in Psychology (1.5 credits)

SPECIALIST PROGRAM IN PSYCHOLOGY
Associate Chair and Program Supervisor: G. Cree Email: psychology-program-supervisor@utsc.utoronto.ca
Contact Support & Program Advisor: Harriet Kayssil Email: kayssil@utsc.utoronto.ca

Program Requirements
The Program requires completion of 12.5 credits, and fulfills the Program requirements for an Honours B.Sc. degree in Psychology.

a) 10.5 full credits in Psychology, as follows:
1. PSYA10H Introductory Psychology: Part I (1.0 credit)
   and
   PSYA20H Introductory Psychology: Part II (1.0 credit)
2. Statistical Methods (0.0 credit)
   a) PSYB07H Data Analysis in Psychology (1.0 credit)
   b) PSYC08H Advanced Data Analysis in Psychology (1.0 credit)
3. Laboratory Methods (0.0 credit)
   a) PSYB01H Psychological Research Laboratory (1.0 credit)
   b) 0.5 credit from among the following:
      PSYC11H Social Psychology Laboratory
      PSYC26H Developmental Psychology Laboratory
      PSYC35H Cognitive Psychology Laboratory
      NRO63H Neuroscience Laboratory
4. PSYC02H Scientific Communication in Psychology (0.5 credit)
5. History and Approaches (0.5 credit)
   a) PSYC34H Psychology and the Scientific Mind
   b) PSYC38H History of Psychology
6. Credits at the B-level and C-level (3 full credits)
   Students are required to take 1.5 credits at the B-level or C-level from each of the two content groups listed below:
   a) Social and Developmental (courses listed in the 50- and 60-series)
   b) Perception, Cognition and Physiology (courses listed in the 50- and 60-series)
7. Credits at the D-level (1.0 credit)
   Students must take a 0.5 credit from each of the groupings listed below:
   a) Group One
      PSYD315H Current Topics in Social Psychology
      PSYD168H Critical Analysis in Social Psychology
      PSYD318H Psychology of Gender
      PSYD208H Current Topics in Developmental Psychology
      PSYD228H Socialization Processes
      PSYD271H Cognition, Health, Culture and Decision Making
   b) Group Two
      PSYD252H The Bilingual Brain
      PSYD260H Genes, Brain, and the Development of Mind
      PSYD341H Human Intelligence
      PSYD508H Current Topics in Memory and Cognition
      PSYD518H Current Topics in Perception
      PSYD568H Creativity, Reasoning and Problem Solving
      PSYD581H The Scientific Study of Conscious and Unconscious Influences
      PSYD660H Current Topics in Human Brain and Behaviour
      PSYD908H Seminar in Computational Cognitive Neuroscience
8. Additional credits in Psychology (2.5 credits)
   Students must choose 2.5 further credits from any of the remaining courses in Psychology. In selecting the 2.5 credits, 1.0 credit must be at the C- or D-level.

b) Other Disciplines (2.0 full credits)
   Students must select at least 2.0 credits at the B-level or higher in a discipline or disciplines other than Psychology.

SPECIALIST (CO-OPERATIVE) PROGRAM IN PSYCHOLOGY
Program Supervisor: I. Libolecjuk
Email: lebolejuk@utsc.utoronto.ca
Course Support & Program Advisor: Hanan Kayali
Email: kayali@utsc.utoronto.ca
Course Contact: tsccoop@utsc.utoronto.ca

The Program combines academic studies in the field of psychology with practical work experience. The work experience provided by the program enables students to explore career opportunities relevant to their studies in psychology. Completion of the program does not, however, represent a professional qualification in psychology, which requires further study at the graduate level. Work settings may also provide students with the opportunity to observe psychologists interacting with other professionals, hence providing a broader and more informed basis for the selection of a post graduate program appropriate to the student's talents and interests. Some work settings will provide the opportunity for participation in basic or applied research. For information on admissions, fees, work terms and standing in the Program, please see the Co-operative Programs section of this Calendar.

Program Admission
Prospective Applicants: For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T facility or from another post secondary institution, see the Co-operative Programs section in this Calendar.
Current U of T Scarborough students: Application procedures can be found at the Registrar’s Office website at: www.utsc.utoronto.ca/registrars. The minimum qualifications for entry are 4.0 credits including PSYA01H & PSYA02H plus a cumulative GPA of at least 2.75.

Work Terms
The program requires eight four month terms of study and two four month work terms over a four year period. To be eligible for their first work term, students must have completed at least 10.0 credits, including PSYB01H, PSYB07H, PSYC02H and PSYC08H, and the non credit Arts & Science Co-op Work Term Preparation course. Certain other courses specified below in the first work term is undertaken.

To be eligible for their second work term, students must have completed at least 12.5 credits, including certain courses specified below, and have received satisfactory evaluation for their performance and for their report on their first work term.

Course Requirements
The program requires the completion of 12.5 credits as specified for the Specialist Program in Psychology, including completion of PSYD05H Psychology and its Applications: Advanced Seminar.

The program provides a theoretical and methodological foundation for the study of psychological processes relevant to social behaviour, life-span development, perception, memory, language and thought. Students can apply for work term employment in settings such as survey research firms and in government departments and other agencies involved in providing support to persons with disabilities, educational organizations, and research and development departments in industry.

Program Requirements
The Program requires completion of 12.5 credits and fulfills the Program requirements for an Honours B. Sc. degree in Psychology.

a) 10.5 full credits in Psychology, as follows:
   1. PSYA01H Introductory Psychology Part I
      and
      PSYA02H Introductory Psychology Part II
      (1.0 credit)
   2. Statistical Methods (1.0 credit)
      a) PSYB07H Data Analysis in Psychology*
      and
      b) PSYC08H Advanced Data Analysis in Psychology*
   3. Laboratory Methods (1.0 credit)
      a) PSYB01H Psychological Research Laboratory*
      and
      b) 0.5 credit from among the following:
         PSYC11H Social Psychology Laboratory
         PSYC21H Developmental Psychology Laboratory
         PSYC51H Cognitive Psychology Laboratory
         NBOC31H Neuroscience Laboratory
4. PSYC020H Scientific Communication in Psychology (0.5 credit)
5. History and Approaches (0.5 credit)
   a) PSYC348H Psychology and the Scientific Mind
   b) PSYC85H History of Psychology
6. Credits at the B-level and C-level (3.0 credits)
   Students are required to take 1.5 credits at the B-level or C-level from each of the two content groups listed below:
   a) Social and Developmental (courses listed in the 10- and 20-series);
   b) Perception, Cognition and Physiology (courses listed in the 50- and 60-series);
7. Credits at the D-level (1.0 credit)
   Students must take 0.5 credit from each of the groupings listed below:
   a) Group One
      PSTY154H Current Topics in Social Psychology
      PSTY158H Critical Analysis in Social Psychology
      PSTY181H Psychology of Gender
      PSTY220H Current Topics in Developmental Psychology
      PSTY222H Socialization Processes
      PSTY244H Human Intelligence
      PSTY271H Cognition, Health, Culture and Decision Making
   b) Group Two
      PSTY220H The Bilingual Brain
      PSTY241H Genes, Brain, and the Development of Mind
      PSTY244H Human Intelligence
      PSTY245H Current Topics in Memory and Cognition
      PSTY251H Current Topics in Perception
      PSTY256H Creativity, Reasoning and Problem Solving
      PSTY258H The Scientific Study of Conscious and Unconscious Influences
      PSTY266H Current Topics in Human Brain and Behaviour
      PSTY269H Seminar in Computational Cognitive Neuroscience
8. Additional credits in Psychology (2.5 credits)
   a) PSYD95H Psychology and its Applications: Advanced Seminar
   b) Students must choose 2.0 further credits from any of the remaining courses in Psychology. In selecting the 3.0 credits, 1.0 credit must be at the C or D level.

* These credits must be successfully completed before the first term work.

MAJOR PROGRAM IN PSYCHOLOGY
Associate Chair and Program Supervisor: G. Cree Email: psychology-program-supervisor@utsc.utoronto.ca
Course Support & Program Advisor: Hanan Kayyali Email: kayyali@utsc.utoronto.ca

Program Requirements
The Program requires completion of 7.0 credits in Psychology.

1. PSYA01H Introductory Psychology; Part I and PSYA02H Introductory Psychology; Part II (1.0 credit)
2. PSYB01H Psychological Research Laboratory (0.5 credit)
3. STAB223H Statistics I (recommended) or PSYB07H Data Analysis in Psychology or SOC306H Social Statistics (0.5 credit)
4. Credits at the B-level and C-level (2.5 full credits)
   Students are required to take 2.0 credits at the B level or C-level from group (a) or (b) 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. Credits at the D-level (0.5 full credit)
   Students must choose one half credit from the D-level offerings in Psychology. Certain D-level NRO courses may be used to fulfill this requirement with the approval of the Supervisor of Studies.

Note: A 300-level course in PSY offered on one campus is comparable to a C-level course, even if listed as an exclusion to a
D-level course. Hence, a 300-level course may not be used to satisfy the D-level program requirement, although it may be applied as appropriate to other program requirements. Courses at the 400-level count as D-level courses.

6. Additional credits in Psychology (2.5 credits)
Students must choose 2.5 further credits from any of the remaining courses in Psychology. At least 1.0 credit from these must be at the C- or D-level.

MINOR PROGRAM IN PSYCHOLOGY
Associate Chair and Program Supervisor: G. Crie  Email: psychology-program-supervisor@utsc.utoronto.ca
Course Support & Program Advisor: Haran Kayali  Email: kayali@utsc.utoronto.ca

Program Requirements
The Program requires completion of 4.0 credits in Psychology.

1. PSYA01H Introduction to Psychology: Part I
and
PSYA02H Introduction to Psychology: Part II
(1.0 credit)

2. PSYB01H Psychological Research Laboratory
(0.5 credit)

3. STAB22H Statistics I (recommended)
or
PSYB07H Data Analysis in Psychology
or
SOCB06H Social Statistics
(0.5 credit)

4. Students are required to select 0.5 credit at the B-level or C-level from each of the two content groups listed below (1.0 credit):
   a) Social, Developmental and Personality (courses listed in the 16-, 26- or 36-series);
   b) Learning, Perception, Cognition and Psychology (courses listed in the 48-, 58- or 68-series);

5. 1.0 additional credit in Psychology at the C-level.

SPECIALIST (CO-OPERATIVE) PROGRAM IN PSYCHOLOGY AND ITS APPLICATIONS
The Specialist (Co-operative) Program in Psychology and its Applications has been replaced by the Specialist (Co-operative) Program in Mental Health Studies and the Specialist (Co-operative) Program in Psychology. Students currently enrolled in Psychology and its Applications will be able to complete the program.

PSYA01H3 Introduction to Psychology: Part I
This course provides a general overview of topics including research techniques in psychology, evolutionary psychology, the biology of behaviour, learning and behaviour, sensation, perception, memory and consciousness. The most influential findings from each of these areas will be highlighted.
Exclusion: PSY100H, PSY109Y, (PSY101H)

PSYA02H3 Introduction to Psychology: Part II
This course provides a general overview of topics including language, intelligence, development, motivation, and emotion, personality, social psychology, stress, mental disorders and treatments of mental disorders. The most influential findings from each of these areas will be highlighted.
Exclusion: PSY100H, PSY109Y, (PSY102H)

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: PSYA01H & PSYA02H

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.

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.
Exclusion: PSY220H
Prerequisite: PSYA01H & PSYA02H
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.
Exclusion: PSYB20H3, PSY210H1
Prerequisite: PSYA01H1 & PSYA02H1

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.
Exclusion: PSYB20H1, PSY210H1
Prerequisite: Enrolment in CTEP
Recommended preparation: PSYA01H1 & PSYA02H1

PSYB30H3 Personality
This course is intended to introduce students to the scientific study of the whole person in biological, social, and cultural context. The ideas of classical personality theorists will be discussed in reference to findings from contemporary personality research.
Exclusion: PSY220H1
Prerequisite: PSYA01H1 & PSYA02H1

PSYB32H3 Abnormal Psychology
The study of abnormal psychology is a search for why people behave, think, and feel in unexpected, sometimes bizarre, and typically self-defeating ways. Much less is known than we would like. However, this course will focus on the ways in which psychopathologists have been trying to learn the causes of abnormal behaviour and what they know about preventing and alleviating it.
Exclusion: PSY240H1
Prerequisite: PSYA01H1 & PSYA02H1

PSYB46H3 Behaviour Modification: Origins and Applications
A survey of attempts to regulate abnormal human behaviour.
Basic principles of behavioural change including reinforcement, extinction, punishment and stimulus control; operant and respondent conditioning procedures; research strategies. Other topics include behavioural contracting, cognitive-behaviour therapy, rational-emotive therapy, and systematic desensitization; treatment of phobias; treatment of alcohol and drug abuse.
Exclusion: PSY260H1
Prerequisite: PSYA01H1 & PSYA02H1

PSYB51H3 Perception and Cognition
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: PSYA01H1 & PSYA02H1

PSYB57H3 Memory and Cognition
Discussion of experiments and theories in human memory and cognition. This course provides an analysis of the research on encoding, storage and retrieval of information in human memory. Also surveyed are the related topics of attention, thinking, and problem solving, and their role in a general model of information processing.
Exclusion: PSY270H1
Prerequisite: PSYA01H1 & PSYA02H1
Recommended: PSYB07H1 or STAB22H1 or their equivalent

PSYB64H3 An Introduction to Psychophysiological 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.
Exclusion: NROG29H1, PSY290H1
Prerequisite: PSYA01H1 & PSYA02H1

PSYB65H3 Human Brain and Behaviour
The neurological basis of human behaviour: an introduction to human neuro-psychology. Hemispheric specialization, diseases of the central nervous system, behavioural consequences of damage to each of the cortical lobes, speech disorders, psychophysiology and the biological basis of psychiatric disorders will be covered.
Prerequisite: PSYA01H1 & PSYA02H1

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.
Limited enrolment: Limited to students in the Specialist Program in Psychology
Prerequisite: PSYB01H1 & [PSYB07H1 or SOCIO06H1 or STAB22H1]
Corequisite: PSYC08H

PSYC1003 Advanced Data Analysis in Psychology
This course is a continuation of PSYB071H. The primary focus of this course is on the understanding of Analysis-of-Variance and its application to various research designs. Examples will include a priori and post hoc tests. Finally, there will be an introduction to multiple regression, including discussions of design issues and interpretation problems.
Exclusion: STAC52H1, PSY220H1
Prerequisite: [PSYB071H or SOCB006H or STAB22H1] & one additional B-level half-credit in Psychology & [PSYB071H is not taken as the prerequisite, completion of a bridging module & permission of the instructor - for information see: www.ustc.utoronto.ca/psych/undergraduates].

PSYC1103 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.
Limited enrollment: 25
Exclusion: PSY230H1
Prerequisite: PSYB071H & [PSYB071H or SOCB006H or STAB22H1] & PSYB100H1

PSYC1203 The Psychology of Prejudice
A detailed examination of selected social psychological topics introduced in PSYB100H1. This course examines the nature of attitudes, stereotypes and prejudice, including their development, persistence, and automotivity. It also explores the impact of stereotypes on their targets, including how stereotypes are perceived and how they affect performance, attributions, and coping.
Exclusion: PSY230H1
Prerequisite: [PSYB071H or SOCB006H or STAB22H1] & PSYB100H1 plus one additional B-level half-credit in PSY

PSYC1403 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.
Exclusion: PSY231H1
Prerequisite: [PSYB071H or SOCB006H or STAB22H1] & PSYB100H1 plus one additional B-level half-credit in PSY

PSYC1803 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, behaviorism, social constructionism, and phenomenology.
Exclusion: PSY240H1
Prerequisite: PSYB100H1

PSYC2103 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. Teaching method: lectures, discussion.
Exclusion: PSY313H1
Prerequisite: PSYB001H plus one additional B-level half-credit in PSY
Recommended: PSYB100H1 or STAB22H1 or their equivalent

PSYC2203 Developmental Psychobiology
Prerequisite: PSYB200H1

PSYC2503 How the Child Discovers Language
The effortless way that young children acquire language remains its most miraculous characteristic. Here, we discover the biological capacities and the important social factors that work together in language acquisition. We challenge assumptions about Language versus Communication, establish the basic milestones, and evaluate prevailing theories stemming from leading brain imaging methods.
Prerequisite: PSYB200H1 & one course from the 50 or 60 series

PSYC2603 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.
Limited enrollment: 24
Exclusion: PSY313H1
Prerequisite: PSYB001H & [PSYB071H or SOCB006H or STAB22H1] & PSYB100H1
PSYC35H3 Clinical Neuropsychology
Clinical neuropsychology is an applied science concerned with the behavioural expression of brain dysfunction. In this course we will first examine the brain and localization of neuropsychological function. We will then explore the science and practice of clinical neuropsychology where tests measuring different neuropsychological domains (e.g., memory, attention and so on) are employed in patient populations to infer brain dysfunction. Students in Specialist (Co-operative) Program in Mental Health Studies or the Behavioural Disorders stream of the Specialist (Co-operative) Program in Psychology and its Applications should enrol in PSYC35H, not in this course.
Limited enrolment: 75
Exclusion: PSYC32H
Prerequisite: PSYB04H & [PSYB07H or SOCIB08H or STAB22H] & PSYB32H & PSYB65H

PSYC35H3 Clinical Neuropsychology Laboratory
The applied science concerned with the behavioural expression of brain dysfunction for students in the Behavioural Disorders stream of the Co-op Program in Psychology and its Applications. Lecture and demonstration material will be as described for PSYC35H. 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.
Limited enrolment: Enrollment is limited to students in the Specialist (Co-operative) Program in Mental Health Studies or the Behavioural Disorders stream of the Specialist (Co-operative) Program in Psychology and its Applications.
Exclusion: PSYC35H
Prerequisite: PSYB04H & [PSYB07H or SOCIB08H or STAB22H] & PSYB32H & PSYB65H

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 or the Behavioural Disorders stream of the Specialist (Co-operative) Program in Psychology and its Applications will have priority for entry to the course.
Prerequisite: [PSYC33H or PSYC32H] & PSYB57H

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.
Exclusion: PSYC33H
Prerequisites: [PSYB07H or SOCIB06H or STAB22H] & PSYB50H plus one additional B-level half-credit in PSY

PSYC36H3 Psychotherapy
This course will provide students with an introduction to prominent behavioral change theories (i.e., psychodynamic, cognitive-behavioral, humanistic/existential) as well as empirical evidence on their efficacy. The role of the therapist, the patient and the process involved in psychotherapy in producing positive outcomes will be explored.
Limited enrolment: Limited to students in the Mental Health Studies program.
Prerequisite: PSYB32H

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.
Limited enrolment: Limited to students in the Mental Health Studies program.
Prerequisite: PSYB32H

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.
Exclusion: (PSYC35H)
Prerequisite: PSYB32H

PSYC34H3 Cognition and Representation
Recent research on the psychology of representation, in pictures, words, metaphors, analogues and symbols. Topics will include developmental and cross-cultural research on children’s drawing, the perception of pictures by the sighted, and blind people identifying raised pictures. It will also include studies on children and adults using literal and non-literal representation, including metaphors, similes, and analogies. It will include cross-cultural research on forms used as symbols, and studies on children and machines using symbols. Teaching method will be lectures and demonstrations.
Prerequisite: [PSYB07H or SOCIB06H or STAB22H] or a PSYB30-series or a PSYB50-series half-credit
PSYC535H1 Cognitive Neuroscience
The goal of this course is to present and analyze current methods, findings and theories relating brain function to cognitive processes such as perception, action, attention, memory, learning, and problem-solving. Recently developed research methods of functional neuro-imaging (including PET, MEG, and functional MRI) will be described along with the important research findings that they have generated.
Exclusion: PSY190H1
Prerequisite: PSYB07H1 & PSYB08H1

PSYC608H1 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: [PSY4A0H1 & PSY4A1H1] & [PSYB07H1 or SOCIB06H1 or STA122H1] & a PSY100-series half-credit

PSYCBH2 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.
Limited enrolment: 40
Prerequisite: PSYB08H1 & [PSYB07H1 or SOCIB06H1 or STA122H1] & [PSYB31H1 or PSYB37H1]
Corequisite: PSYCOH1 is recommended but not required.

PSYC823H3 Drugs and the Brain
An examination of behavioral 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.
Exclusion: PSY968H1 & PCL435Y
Prerequisite: [PSYB37H1 or its equivalent] & [at least one of PSYB64H1, PSYB65H or NRBO60H1] & [one additional B-level or C-level half-credit in PSY or NRO]

PSYC843H3 Psychology and the Scientific Mind
This course examines how scientists think and make discoveries, gender differences in scientific thought, and how science is learned and taught. Are there similarities in the learning of concepts across all fields of inquiry such as music, politics and literature? We will also explore the media's role in shaping people's understanding of science.
Prerequisite: PSYB01H1 & one other B-level half-credit in Psychology

PSYC853H3 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, behaviorism, and phenomenology.
This course is restricted to 3rd and 4th year students in Specialist Programs in Psychology and Mental Health Studies, Psycholinguistics and Cognitive Science.
Limited enrolment: 25
Exclusion: PSY100H1
Prerequisite: Two B-level half-credits in Psychology or permission of the instructor
Recommended: PSYB01H1 or STA122H1 or their equivalent

PSYC863H3 PSY863H3 Supervised Study in Psychology
An intensive research project intended to provide laboratory/field experience in data collection and analysis. The project must be completed over 2 consecutive terms.
These courses provide an opportunity to engage in research in an area after completing basic coverage in regularly scheduled courses. The student must demonstrate a background adequate for the project proposed and should present a clear rationale to prospective supervisors. Regular consultation with the supervisor is necessary, and extensive data collection and analysis will be required. Such a project will culminate in a written research report.
Students must first find a supervisor before the start of the academic term in which the project will be initiated. They must then obtain a permission form from the Department of Psychology’s website (www.utsc.utoronto.ca/psychundergraduates) 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 at UTSC, this is acceptable, but it is recommended that the student contact the Psychology Office to ensure that it is acceptable. Tuition in Psychology courses is $250/term, and it is expected that students will have a commitment of at least 10 hours/week. Approval for the project will be contingent upon the student’s progress. The project must be completed by the end of the term in which the student is registered.
Exclusions for PSYCOH1, COG991H, NRBC90H1, PSYJ30H1, PSYJ30H1
Exclusions: PSY931H, COG992H, NRBC90H1, PSYJ30H1, PSYJ30H1
Prerequisite: 3.0 full credits in Psychology & permission of the proposed supervisor. (Note: Normally students need a cumulative GPA of at least 2.7 for permission to be granted.)
252 Psychology

PSYD15H3 Current Topics in Social Psychology
An intensive examination of selected issues and research problems in social psychology.
Limited enrolment: 20
Exclusion: PSY326H1, PSY423H1
Prerequisites: PSYB101H & [PSYC121H or PSYC141H]

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.
Limited enrolment: 20
Exclusion: PSY426H1
Prerequisites: PSYC111H or PSYC121H or [PSYB101H plus one C-level half-credit in PSY]

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.
Limited enrolment: 20
Prerequisites: PSYC121H & [PSYB64H1 or PSYB65H1]

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. Teaching method: seminar.
Limited enrolment: 20
Exclusion: PSY322H1
Prerequisite: PSYB101H plus two C-level half-credit in PSY

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.
Limited enrolment: 20
Exclusion: PSY410H1
Prerequisites: PSYC211H or PLIC241H or [PSYB200H plus one C-level half-credit in PSY]

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.
Limited enrolment: 20
Exclusion: PSY311H, PSY410H
Prerequisites: PSYB101H & PSYB200H plus one C-level half-credit in PSY

PSYD25H3 The Bilingual Brain
Prevaling views about bilingualism and the minds and brains of bilinguals are explored. Recent technological breakthroughs are considered that look inside the bilingual brain, and, for the first time, adjudicate among competing views. We further explore the bilingual brain as a new lens into the nature of cognitive and linguistic processing in all human brains.
Limited enrolment: 24
Prerequisite: PSYC255H (In 2008-09 only PSYC251H may be taken as a corequisite.)

PSYD26H3 Genes, Brain and the Development of Mind
This course explores a new direction in developmental science that combines genetics, brain imaging, and human behavioral psycholinguistic and cognitive methods. Together, these three disciplines afford a new lens into the evolution of the human mind and its cognitive processes (including, attention, numeracy, language, reading disorders) and aspects of emotion and social cognition.
Limited enrolment: 20
Exclusion: PSYD200H (if taken in the 2008 Winter Session)
Prerequisite: PSYB200H & [PSYB55H1 or PSYB57H1]

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.
Limited enrolment: 20
Exclusion: PSY330H1
Prerequisite: PSYB300H plus one C-level half-credit in PSY

PSYD33H3 Current Topics in Abnormal Psychology
An intensive examination of selected issues and research problems in abnormal psychology. The specific content will vary from year to year.
Limited enrolment: 20
Exclusion: PSY440H1
Prerequisite: PSYB31H plus one C-level half-credit in PSY

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.
Limited enrolment: 20
Prerequisites: PSYB300H1 & [PSYB700H or SOCB60H1 or STAB22H1]. PSYC600H also recommended.
PSYD3H1 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. Limited enrolment: This course is restricted to students in the Mental Health Studies program. Exclusion: PSYB61H & PSYC62H

PSYD50H1 Current Topics in Memory and Cognition
An intensive examination of selected topics. The specific content will vary from year to year. Limited enrolment: 20
Exclusion: PSY411H, PSY412H
Prerequisite: PSYB51H plus one C-level half-credit in PSY

PSYD51H3 Current Topics in Perception
The course provides an intensive examination of selected topics in recent research on perception. Topics may include research in vision, action, touch, hearing and multisensory integration. Selected readings will cover psychological and neurophysiological findings, neurophysiological results, synaesthesia and an introduction to the Bayesian mechanisms of multisensory integration.
Limited enrolment: 20
Prerequisite: PSYB51H

PSYD56H3 Creativity, Reasoning and Problem Solving
The goal of this course is to look at the ways that brain mechanisms underlie creativity and the evolution of human thought. Special attention will be given to the way people think and change their thinking to create new concepts. These are the fundamental abilities that make us human. Prerequisite: PSYB51H

PSYD57H3 Cognition, Health, Culture and Decision Making
This will be a seminar course in which key topics in contemporary cognitive theory are discussed in relation to decision making tasks in domains such as health, the natural world and the economy. The common heuristics that people use to represent and modify concepts and the roles that culture plays in decision making will be discussed.
Limited enrolment: 24
Exclusion: PSYD51H (if taken in the 2008 Winter Session)
Prerequisite: Any C-level half-credit in the 50-series.

PSYD58H3 The Scientific Study of Conscious and Unconscious Influences
This course focuses on empirical attempts to distinguish between conscious and unconscious processes, and to better understand the manner in which they combine to affect performance. The course will begin with a brief history of experiments studying conscious and unconscious influences, and will then shift to a detailed examination of more current approaches. Topics covered will include subliminal perception, conscious versus unconscious memory, and models of the relation between conscious and unconscious influences.
Limited enrolment: 20
Prerequisite: PSYB51H and at least one C-level half-credit in Psychology

PSYD66H3 Current Topics in Human Brain and Behaviour
An extensive examination of selected human brain and behaviour topics introduced in PSYB61H. The neural bases of mental functions such as language, learning, memory, emotion, motivation and addiction are examples of the topics that may be included. Students will be expected to read and discuss current empirical research in this field.
Limited enrolment: 24
Prerequisite: PSYB61H
Recommended: PSYB07H or STAB22H or their equivalent Corequisite: One additional C-level half-credit in Psychology

PSYD90H3 Seminar in Computational Cognitive Neuroscience
In this course high-performing, senior undergraduates participate in a graduate seminar on Computational Cognitive Neuroscience. Each week visiting experts present research on at least two of computation, cognition or neuroscience. Students are expected to read and comment on articles, attend the talks, and write a final paper.
Limited enrolment: 5
Prerequisite: Minimum cumulative GPA of at least 3.6 & permission of instructor

PSYD95H3 Psychology and Its Applications, Advanced Seminar
Students will undertake library research relating to their work experience, make classroom presentations, and submit a written paper. Enrolment in this course is limited to students in the Specialist (Co-operative) Program in Psychology and mental Health Studies.
Prerequisite: Satisfactory completion of the two required work terms and associated work term reports.
PSY068Y3 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 an permission form from the Psychology departmental website (www.utsa.utoronto.ca/psych/undergraduates) that is to be completed and signed by the intended supervisor, and submitted to the Psychology Office. At that time, the student will be provided with an outline of the schedule and general requirements for the course. Students seeking supervision off campus will need to arrange co-supervision with a faculty member in Psychology at this campus.

Exclusion: NROD96Y, COGD01H, PSY400Y
Prerequisite: PSYB01H & PSYB07H & PSYC08H, 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 final confirmation.

PLIB25H3 Second Language Learning
PLIC15H3 Speech Perception
PLIC24H3 Developmental Psycholinguistics
PLIC34H3 Reading in a First or a Second Language
PLIC55H3 Psycholinguistics
PLIC56H3 Quantitative Methods in Linguistics
PLID44H3 Acquisition of the Mental Lexicon
PLID55H3 Disorders of Speech and Language
PLID64H3 Seminar in Second Language Acquisition
PLID65H3 Seminar 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.)

Religion
(B.A.)

Faculty List
A.J. Droge, Ph.D. (Chicago), Professor
H.C.H. Shiu, B.A., M.A., Ph.D. (Toronto), Assistant Professor

Program Director and Supervisor: H. Shiu (416-287-7128) Email: religion-program-supervisor@utsc.utoronto.ca

The Program in Religion aims at fostering a student’s understanding of religion as one of the primary expressions of the human condition and as a historically powerful force in the shaping of human cultures and societies. It also seeks to develop a student’s appreciation of the difficulties and possibilities inherent in undertaking a critical, disciplined study of religion. The location of the Program in the Faculty of Arts and Humanities and its use of courses from a variety of areas of study signal that neither the study of religion nor its data are the privileged possession of a single discipline. The hallmark of the Program at University of Toronto Scarborough is its interdisciplinary structure. Faculty from Anthropology, Classics, History, English, Philosophy, Sociology, and Visual Arts provide students with the opportunity to examine religious artful text, literature, and communities within particular cultural and historical contexts and in the context of comparable manifestations within the general history of religion.

Guidelines for 1st year course selection
Students who intend to complete a Religion program should include RLG01H & RLG02H in their 1st year course selection. Students are also strongly encouraged to take HUMA01H (Exploring Key Questions in Humanities) as early as possible in their studies.

MAJOR PROGRAM IN RELIGION

Program Requirements
Students must complete 7.5 full credits as follows:
1. RLG01H World Religion I
2. RLG02H World Religion II
3. RLG015 Introduction to the Study of Religion
4. 4.0 additional full credits from the following list:
   RLG001H The "Holy Book" in Judaism, Christianity, and Islam
   RLG020H Comparative Study of Hinduism, Islam, Buddhism, and Sikhism
   RLG021H Introduction to Chinese Philosophy
   RLG031H The Five Books of Moses
   RLG022H The Gospels
   RLG030H Paul and the Invention of Christianity
5. 1.0 credit from the following list of non-RLG courses that provide a contextual background for the study of religion:
   - CLA A05H Ancient Mythology I: Mesopotamia and Egypt
   - CLA A06H Ancient Mythology II: Greece and Rome
   - HIS D63H The Crusades: I
   - HIS D64H The Crusades: II
   - VPH D65H Representing Religions: The Rise of States, World Religions, and Patronage
   - VPH D70H Buddhist Arts and Cultures
   - VPM B77H Music in Religion and Ritual

   Students can also take courses from the following list, but they are advised that these courses have additional pre-requisites:
   - ANT B30H Conceptualizing Religion
   - ANTC 318 Ritual and Religious Action
   - ENGC 169 The Bible and Literature I
   - ENGC 171 The Bible and Literature II
   - SOC C 318 Sociology of Religion
   - VPH C55H Religion in the Arts: Hinduism and Buddhism
   - VPH C 56H Religion in the Arts: Judeo-Christian Traditions
   - VPH C 53H Religion in the Arts: Seminar in Buddhism and Art

6. 1.0 full credit from LRG (Language) or FRE (French)

Guidelines for 1st year course selection:
First-year students should take both RLGA 01H and/or RLGA 02H to provide them with the foundation for further comparative studies. Students should also take RLCB 01H early in their program, either in the first or the second year, so as to learn about the methods and theories in the study of religion, which are currently at the center of debate within the discipline.

MINOR PROGRAM IN RELIGION

Program Requirements
Students must complete 4.0 full credits as follows:

1. RLGA 01H World Religions I
2. RLGA 02H World Religions II
3. RLB 01H Introduction to the Study of Religion
4. 2.5 additional full credits from the following list, with at least 1.0 full credit at the C- or D-level:
   - RLB 018 The "Holy Book" in Judaism, Christianity, and Islam
   - RLB 029 Comparative Study of Hinduism, Jainism, Buddhism, and Sikhism
   - RLB 034 Introduction to Chinese Philosophy
   - RLC 018 The Five Books of Moses
   - RLC 029 The Gospels
   - RLC 039 Paul and the Invention of Christianity
   - RLC 049 Hindu Epic
   - RLC 059 The Qur’an
   - RLC 069 Mahayana Buddhism
   - RLC 079 Topics in Buddhist Philosophy: Buddhist Ethics
   - RLC 089 Topics in Chinese Philosophy: Confucianism
   - RLC 099 Islam in Asia
   - RLC 109 Hinduism in South Asia and the Diaspora
   - RLC 118 Theravada Buddhism
   - RLC 129 Contemporary Engaged Buddhist Movements in Asia
   - RLC 409 Selected Topics in the Study of Religion I
   - RLC 419 Selected Topics in the Study of Religion II
RLGD01H Supervised Readings in the Study of Religion
CLAA05H Ancient Mythology I: Mesopotamia and Egypt
CLAA06H Ancient Mythology II: Greece and Rome
HISD01H The Crusades: I
HISD04H The Crusades: II
VPHE64H Representing Religions: The Rise of States, World Religions, and Patronage
VPHE67H Buddhist Arts and Cultures
VPMB07H Music in Religion and Ritual

Students may also take courses from the following list, but they are advised that these courses have additional pre-requisites:

ANTIB03H Conceptualizing Religion
ANTC53H Ritual and Religious Action
ENGC161H The Bible and Literature I
ENGC171H The Bible and Literature II
SOCI21H Sociology of Religion
VPHE51H Religion in the Arts: Hinduism and Buddhism
VPHE51H Religion in the Arts: Jewish-Christian Traditions
VPHE55H Religion in the Arts: Seminar in Buddhism and Art

RLGA01H World Religions I
An introduction to major religious traditions of the world. This course emphasizes the history, beliefs, practices and writings of Hinduism, Judaism, Buddhism, Confucianism, Taoism, and Shinto. Exclusion: (HUMB04H)

RLGA02H 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: (HUMB03H)

RLGB01H The "Holy Book" in Judaism, Christianity, and Islam
An introduction to the "scriptures" of Western civilization, their formation, interpretation, and critical study. Exclusion: (HUMB03H)

RLGB02H Comparative Study of Hinduism, Jainism, Buddhism and Sikhism
Critical comparative study of the major Indian religious traditions.

RLGB03H Introduction to Chinese Philosophy
The course will be based on the study of three major traditions in Chinese thought: Confucianism, Daoism and Buddhism. Primary texts in translation and key areas of philosophy will be discussed. We put our emphasis on historical development of each tradition and textual analysis. Exclusion: PHIL237H, (PHIL40H)

RLGB04H Introduction to the Study of Religion
An introduction to the academic study of religion, with special attention to method and theory.

RLGB01H The Five Books of Moses
Critical issues in the modern study of the Torah/Pentateuch, including its composition, literary form, canonization, and interpretation in modern criticism. Limited enrollment: 50
Exclusion: (HUMC10H)
Prerequisites: RLGA02H or (HUMB03H)

RLGC02H The Gospels
An introduction to the earliest writings (canonical and non) about Jesus of Nazareth. Limited enrollment: 50
Exclusion: RLGC02H, (HUMC14H)
Prerequisites: RLGA02H or (HUMB03H)

RLGC03H Paul and the Invention of Christianity
An introduction to the writings of Paul, as well as with those of his admirers and adversaries, for an assessment of his role in the origins of Christianity. Limited enrollment: 50
Exclusion: RLGC02H
Prerequisites: RLGA02H or (HUMB03H)

RLGC04H Hindu Epic
An exploration of portions of the Ramayana, the Mahabharata, the Bhagavad Gita, and related texts, in order to develop an understanding of this segment of the Hindu textual tradition. The history, content, and contemporary religious significance of these texts will be examined. Exclusion: (HUMC16H)
Prerequisites: RLGA01H or (HUMB04H)

RLGC05H The Qur'an
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. Exclusion: RLGC01H, NMC285H, (HUMC17H)
Prerequisites: RLGA01H or RLGB01H or (HUMB03H)
RLGC08H3 Mahayana Buddhism
Comparative study of the Mahayana and Yogacara traditions, and doctrines such as emptiness (Sunyata), Buddha-nature (tathagatagarbha), cognitive-representation only (vijayanirmaitrisi), the three natures (trisvabhava).
Exclusion: EAS368V.
Prerequisite: RLGA01H1 or HUMB04H1 or RLGB06H1

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 sīla, ethics and psychology, miracoe ethics in Mahayana, Buddhism, utilitarianism, and Aristotelian
Exclusion: NEW214Y, (PHLC40H1)
Prerequisite: RLGA01H1 or HUMB04H1 or (PHLB40H1) or (PHLB42H1)

RLGC08H3 Topics in Chinese Philosophy: Confucianism
Through studying Confucian classics in translation and related readings, this course discusses theories of philosophers and their debate. Gender roles, attitudes toward the natural environment and modern concepts in business ethics reflecting in Confucian texts will also be discussed.
Exclusion: (PHLC42H1)
Prerequisite: RLGA01H1 or (HUMB04H1) or (PHLB40H1)

RLGC08H3 Islam in Asia
The course examines the development Islam in the contexts of Asian religions and cultures, and the portrayal of the Muslim world in Asian popular culture.
Prerequisite: RLGA0H1 or (HUMB04H1)
Recommended preparation: RLGG05H1

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: RLGA0H1 or (HUMB04H1)
Recommended preparation: RLGB02H1 & RLGC04H1

RLGC11H3 Theravada Buddhism
Theravada is the oldest surviving school of Buddhism now preserved in Southeast Asia, including Sri Lanka, Thailand, Laos, Cambodia, and Burma (Myanmar). A conservative tradition, Theravada upholds some of the earliest teachings of Buddhism. A study of this tradition allows students to understand the foundational teachings of the Buddha.
Exclusion: RLGC20H4, RLGC10H3
Prerequisite: RLGA01H1 or (HUMB04H1)

RLGC12H3 Contemporary Engaged Buddhist Movements in Asia
The course will introduce a comprehensive survey of Engaged Buddhism, which calls for the need to apply traditional Buddhist teachings to improve our society, focusing on the contemporary engaged Buddhist movements in Vietnam, Tibet, China & Taiwan, Sri Lanka, Thailand and India.
Exclusion: NEW214Y, (RLGC07H1)
Prerequisite: RLGA01H1 or (HUMB04H1)

RLGC40H3 Selected Topics in the Study of Religion I
Intensive study of selected topics discussed in RLGA01H1 (World Religions I) that will vary with each offering of the course.
Exclusion: (HUMC44H1)
Prerequisite: 2.0 full credits in RLG & permission of the instructor

RLGC41H3 Selected Topics in the Study of Religion II
Intensive study of selected topics discussed in RLGA02H (World Religions II) that will vary with each offering of the course.
Exclusion: (HUMC43H1)
Prerequisite: 2.0 full credits in RLG & permission of the instructor

RLGD01H3 Supervised Readings in the Study of Religion
A student-initiated research project to be approved by the Department and supervised by one of the faculty members.
Prerequisite: 2.0 full credits in RLG at the C-Level & permission of the instructor

RLGD02H3 Seminar in Religion
A seminar for religion majors 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.
Limited enrollment: 15
Prerequisite: RLGB10H1 & 2-C level courses in Religion

Science Engagement
Coordinator: K. Perroud Email: sci-eng@utoronto.ca
Website: www.utoronto.ca/se/Science_Engagement/index.html

Science Engagement is a multi-disciplinary approach to science education. The goal of Science Engagement is to deepen students’ understanding of their discipline by helping them actively practice concepts and approaches outside of the typical classroom environment. Through a range of activities, we simultaneously strengthen the University of Toronto’s research ecosystem, reach out to our communities and broaden the way we help our undergraduates learn science. There are two major categories of activities: Team Research and Service Learning (which includes both Community Outreach and Classroom In-reach).
Team Research
A group of 3-5 students work as a team to develop and/or implement a project. Faculty members provide general guidance, and students meet weekly with a graduate student. Participation requires (1) registration in a supervised study course offered by the departments of Biological Sciences, Computer & Mathematical Sciences, Physical and Environmental Sciences or Psychology, (2) acceptance of the Science Engagement application form which can be downloaded from the website. (http://www.usc.utoronto.ca/cfl/Science_Engagement/index.html) and should be emailed to scieng@usc.utoronto.ca. GPA and communication skills will also be considered.

Service Learning
Service Learning is a pedagogical approach which links discipline-specific concepts and approaches with direct practice through the continual, transformative process of critical reflection. Through Science Engagement, students can carry out their service and actively apply their academic knowledge in either of two ways:

1. **Community Outreach**, where students bring concepts and approaches taught in the science classroom to science-interested parties within the off-campus community such as area schools, NGOs, community groups and laboratories or
2. **Classroom In-reach**, where students deepen their knowledge by using their own educational experience in a completed UTSC undergraduate science course to enrich the learning of students currently in that course.

Both SCIB01H3 and SCIB02H3 involve a 6-7 hrs/wk placement component and a 2 hrs/wk in-class component.

SCIB01H3 Science Engagement Outreach
A service learning course in which students bring concepts taught in the science classroom to science-interested parties within the community such as area schools, laboratories, NGOs and community groups. Problem-solving, professional communication and self-efficacious learning skills will be developed. Evaluation is based on participation, self-efficacious writing and experiential e-portfolio creation.

**Prerequisite:** (1) Completion of 4.0 full credits & (2) selection of a U of T Scarborough major or specialist subject POS, offered by Biological Sciences, Computer and Mathematical Sciences, Physical and Environmental Sciences, or Psychology & (3) acceptance of the Science Engagement application forms which can be downloaded from the website. (www.usc.utoronto.ca/cfl/Science_Engagement/index.html) and should be emailed to scieng@usc.utoronto.ca. GPA and communication skills will also be considered.

SCIB02H3 Science Engagement In-reach
A service learning course in which students deepen their knowledge by using their own educational experience in a completed science course to enrich the learning of students currently in that course. Evaluation is based on self-efficacious writing, learning aids produced and experiential e-portfolio creation. To participate in SCIB02H3, students must have attained a grade of 70% or better in the course they wish to be placed.

**Prerequisite:** (1) Completion of 4.0 full credits & (2) selection of a U of T Scarborough major or specialist subject POS, offered by Biological Sciences, Computer & Mathematical Sciences, Physical and Environmental Sciences, or Psychology & (3) acceptance of the Science Engagement application forms which can be downloaded from the website. (www.usc.utoronto.ca/cfl/Science_Engagement/index.html) and should be emailed to scieng@usc.utoronto.ca. GPA and communication skills will also be considered.

Society and Environment
(B.A.)
**Undergraduate Counsellor:** J. Rozumowski Email: social-sciences-counsellor@usc.utoronto.ca

**MAJOR PROGRAM IN SOCIETY AND ENVIRONMENT**
The Major Program in Society and Environment has been withdrawn from the curriculum. Every effort will be made to ensure that students currently enrolled in the program are able to complete it.
Sociology

Faculty List
W.W. Isaak, B.A. (LaSalle), M.A., Ph.D. (Catholic Univ. of America), Professor Emeritus
R. O'Toole, B.A. (Leeds), Ph.D. (London), M.A. (McMaster), Ph.D. (Tulane), Professor Emeritus
J. Hannigan, B.A., M.A. (Western Ontario), Ph.D. (Ohio State), Professor
A. Seve, B.A., M.A. (Windsor), Ph.D. (York, Canada), Professor
J. Tanner, B.Sc. (London) PGCE (Leicester), M.A., Ph.D. (Alberta), Professor
J. Henn, B.A. (Western), M.A. (Carleton), D.Phil. (Oxon.), Associate Professor
P.C. Huang, B.A. (National Chung Hsing University), M.A. (Chinese Cultural University), M.A., Ph.D. (UCLA), Associate Professor
S. Ungar, B.A. (McGill), M.A., Ph.D. (York, Canada), Associate Professor
P. Landolt, B.A., M.A., Ph.D. (York), M.A., Ph.D. (Johns Hopkins), Assistant Professor
K. Liddell, B.A. (Oxford), M.A. (Adams), Ph.D. (Emory), Assistant Professor
A. Mulvaney, B.A. (California), M.A., Ph.D. (Yale), Assistant Professor
D. Silver, B.A. (Berkely), M.A., Ph.D. (Chicago), Assistant Professor

Discipline Representative: J. Henn
Undergraduate Counsellor: J. Roopnurahsingh Email: social-sciences-counsellor@utsa.utoronto.ca

Sociology is the scientific study of interaction among people, the social relations which they establish, and the social groups which they form. Sociology attempts to explain how society is ordered, how it functions, and what accounts for social cohesion, social stratification, social mobility, and social change. It studies the consequences of co-operation, competition, and conflict.

Students may wish to take Sociology courses as a part of a general education, in anticipation of the usefulness of certain courses in future occupations or professions, or as part of a Specialist, Major, or Minor Program.

The introductory courses, SOCA01H and SOCA02H, are intended to familiarize students with the distinctive theories, methods and questions of sociology as a part of a liberal education. In addition, the courses provide a minimum background of knowledge about sociology, and hence a prerequisite to all of the more advanced courses.

Students who want to learn about certain areas of sociology which may be useful in later occupational situations may consult faculty advisers who are prepared to assist them in course selection. There are no formal requirements for these special areas and they will not be designated on diplomas.

The faculty advisers for special areas of concentration are:

- Social Work  Prof. A. Seve (seve@utsa.utoronto.ca)
- Urban Studies  Prof. J. Hannigan (john.hannigan@utoronto.ca)
- Education  Prof. J. Tanner (julian.tanner@utoronto.ca)

Planning a Program in Sociology

Students are obliged to take required courses in the Major and Specialist Programs as early in their careers as possible. For example, SOCA01H and SOCA02H should be taken during the first year, SOCB05H, SOCB06H, SOCB02H and SOCB03H should be taken during the second year and SOCC04H and SOCC01H should be taken during the third year. Failure to do so may lead to timetable conflicts and avoid the completion of the Program. Students are reminded that they are not permitted to register in courses for which they have not completed the prerequisites indicated in the Calendar. They may only enter a course for which they lack the prerequisites by obtaining the permission of the instructor prior to registration. Instructors have the right to request removal of any student ineligible for enrolment.

SPECIALIST PROGRAM IN SOCIOLOGY

Program Admission
Enrolment in the Specialist Program is limited. Students must normally apply to enter the Program after completing 4 or 5 full credit courses, including SOCA01H and SOCA02H. Decisions are made on Program admissions only twice a year, in May and August, and are based on student requests submitted to the Registrar through ROSI. Admission is determined on the basis of a student's overall GPA and grades in SOCA01H and SOCA02H. For students applying after 8-10 credits, admission will be on the basis of overall GPA and grades in SOC courses taken. Specialist students will not be entitled to priority access to SOC006H, SOC024H, SOC034H, SOC023H & SOC033H, for full-winter sessions, in the summer early registration period.

Program Requirements
The Program requires completion of ten full credits as described below. No more than fourteen full credits in Sociology may be included in a four-year degree.

1. SOCA01H Introduction to Sociology
2. SOCA02H Introduction to Sociology II
3. SOCB05H Logic of Social Inquiry
4. SOCB06H Social Statistics

Program Co-ordinator: Dr. J. Henn

Field Trips
Field trips are available to students in Sociology. The Faculty of Arts and Science provides information on field trips and other travel opportunities for undergraduate students through the Office of Undergraduate Services.
4. SOCB42H Classical Sociological Theory Part I
5. SOCB43H Classical Sociological Theory Part II
6. Two full credits at B-level in Sociology
7. SOCC408H Contemporary Sociological Theory, Part I
8. SOCC413H Contemporary Sociological Theory, Part II
9. SOCC23H Practicum in Qualitative Research Methods or SOCC313H Practicum in Quantitative Research Methods
10. One and a half full credits at C-level
11. One full credit at D-level
12. One other full credit in Sociology

SPECIALIST (CO-OPERATIVE) PROGRAM IN SOCIOLOGY
Co-op Contact: askcoop@utsc.utoronto.ca

The Co-operative Program allows students to pursue an in-depth study of Sociology combined with two four-month work terms in areas complementary to the area of study. Work terms can be with research institutes, the private sector, public institutions, and non-government organizations.

For information on admissions, fees, work terms, and standing in the program, please see the Co-operative Programs section of this Calendar.

Program Admission
This is a limited enrolment program.

Prospective Applicants: For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post-secondary institution, see the Co-operative Programs section in this Calendar. Current U of T Scarborough students: Application procedures can be found at the Registrar’s Office website at www.utsc.utoronto.ca/subjectpost. The minimum qualifications for entry are 4.0 credits including SOCA01H & SOCA02H plus a cumulative GPA of at least 2.5.

Program Requirements
Work Terms
In order to be eligible for placement, students must complete a minimum of 10 full credits, including SOCB05H, SOCB06H, SOCB42H and SOCB43H and complete the Arts & Science Co-op Work Term Preparation course.

Course Requirements
Students must complete the requirements for the Specialist Program in Sociology (see below), with the following additional requirements:

Either SOCB44H or SOCB55H

(These courses may be counted in partial fulfillment of the requirements for B-level courses within the Sociology Specialist Program.)

MAJOR PROGRAM IN SOCIOLOGY

Program Admission
Enrolment in the Major Program is limited. Students must normally apply to enter the Program after completing 4 or 5 full credits including SOCA01H and SOCA02H. 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 ROSE. Admission is determined on the basis of a student’s overall GPA and grades in SOCA01H and SOCA02H. For students applying after 8.10 credits, admission will be on the basis of overall GPA and grades in SOC courses taken. Major students will be entitled to priority access to SOCB06H, SOCB42H and SOCB43H for fall-winter sessions, in the summer early registration period.

Program Requirements
The Program requires completion of seven full credits in Sociology including:

1. SOCA01H Introduction to Sociology I
2. SOCA02H Introduction to Sociology II
3. SOCB05H Logic of Social Inquiry
4. SOCB06H Social Statistics
5. SOCB42H Classical Sociological Theory I
6. SOCB43H Classical Sociological Theory II
7. Four full credits in Sociology, at least one and a half of which must be at the C-level
MINOR PROGRAM IN SOCIOLOGY

Program Admission

Admission to the Minor Program in Sociology is not limited. All students who apply for this Program will be admitted. However, students are warned that they are not guaranteed admission to B-level and C-level courses during fall and winter session, and thus will be recommended 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 four full credits in Sociology including:

1. SOCA01H Introduction to Sociology I
   SOCA02H Introduction to Sociology II
2. SOCB10H Logic of Social Inquiry
3. SOCB14H Classical Sociological Theory I
4. SOCB14H Classical Sociological Theory II
5. 1.5 additional full credits in Sociology including 1.0 at the C-level

SOCA01H Introduction to Sociology I

An introduction to the basic concepts, principles and methods of Sociology as a discipline for the study of society. Sociology I covers theory, methods, culture, social interaction and social stratification. Exclusion: SOC101Y

Prerequisite: SOCA01H

SOCA02H Introduction to Sociology II

Sociology II applies the ideas from Sociology I to social institutions and processes. Topics covered include race and ethnicity, gender, urbanization, globalization, population and deviant behaviour. Exclusion: SOC101Y

Prerequisite: SOCA01H

SOCB10H 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.Limited enrolment: 170

Exclusion: SOCB201Y, SOCB290Y, (SOCB401H), (SOCA411H)

Prerequisite: SOCA01H & SOCA02H

SOCB14H Social Statistics

A consideration of elementary statistics including the summarizing of data, the logic of statistical decision-making and a number of common statistical tests. Statistics is a basic tool used by sociologists. An understanding of statistics is necessary for the student who wants to become an informed reader of social research. A working knowledge of elementary algebra is required. However, the lecturer will undertake brief reviews of mathematics as the need arises.

Limited enrolment: 170

Exclusion: ANTC35H, ECM180Y, ECM211H, PSYB10H, SOC202H, (SOC100Y), STAB22H

Prerequisite: SOCA01H & SOCA02H

SOCB201Y 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: SOCA01H & SOCA02H

SOCB202H 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.

Limited enrolment: 170

Prerequisite: SOCA01H & SOCA02H

SOCB401H Classical 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 Auguste Comte, Herbert Spencer and Karl Marx.

Limited enrolment: 170

Exclusion: SOCB201Y

Prerequisite: SOCA01H & SOCA02H

SOCB402H Classical 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 and Georg Simmel.

Limited enrolment: 170

Exclusion: SOCB203Y

Prerequisite: SOCB401H & SOCB402H & SOCB425H

SOCB446H Urban Sociology: Macro-Analysis

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.

Limited enrolment: 170

Exclusion: SOCB302Y

Prerequisite: SOCA01H & SOCA02H
SOCS45H3 Urban Sociology: Micro-Analysis
Examines the organizational and social psychological dimensions of urbanism in relation to local neighbourhoods, sub-cultures, networks and lifestyles. Students will be required to undertake a fieldwork study as part of the course requirements.
Limited enrolment: 170
Exclusion: SOC205Y
Prerequisite: SOCA01H & SOCA20H & SOCB44H

SOCS46H3 Social Class and Stratification I
The description and analysis of the patterns of social stratifications and theories of social inequality up to and during the first three centuries of the Industrial Revolution.
Limited enrolment: 170
Exclusion: SOC301Y
Prerequisite: SOCA01H & SOCA20H

SOCS47H3 Social Class and Stratification II
The description and analysis of patterns of social stratification and theories of social inequality in the contemporary world, with special emphasis on the Canadian situation.
Limited enrolment: 170
Exclusion: SOC301Y
Prerequisite: SOCA01H & SOCA20H & SOCB46H

SOCS48H3 Family and Society
Focuses on the interaction between family and society by considering the historical, social, political and economic influences on family life and by examining how the family unit affects the social world. Readings draw on theoretical, historical and ethnographic materials.
Limited enrolment: 170
Exclusion: SOC214Y
Prerequisite: SOCA01H & SOCA20H

SOCS49H3 Family in Transition
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 macro/ethnic stratifications. Selected topics include: socialization; courtship, heterosexual and gay and lesbian relations; gender division of labour; immigrant families; child rearing and childcare; divorce; domestic violence; elderly care.
Limited enrolment: 170
Exclusion: SOC214Y
Prerequisite: SOCA01H & SOCA20H

SOCS51H3 Deviance and Normality I
This course explores how deviance and abnormality 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.
Limited enrolment: 170
Exclusion: SOC212Y
Prerequisite: SOCA01H & SOCA20H

SOCS51H3 Deviance and Normality II
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.
Limited enrolment: 170
Exclusion: SOC212Y
Prerequisite: SOCA01H & SOCA20H

SOCS52H3 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.
Limited enrolment: 170
Exclusion: SOC210Y
Prerequisite: SOCA01H & SOCA20H

SOCS53H3 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.
Limited enrolment: 170
Exclusion: SOC210Y
Prerequisite: SOCA01H & SOCA20H

SOCS54H3 Sociology of Work and Industry I
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 the labour force participation, and why we call some jobs 'professional', but not others.
Limited enrolment: 170
Exclusion: SOC207Y, SOC317Y, SOC370Y
Prerequisite: SOCA01H & SOCA20H

SOCS55H3 Sociology of Work and Industry II
Is it just about the money? This course examines the factors that shape workplace behaviour - the effects of managerial control systems, technology and work groups; the expectations that people have of their jobs. It examines relationships between workers and management, trade unions and industrial conflict. It explores change in the workplace.
Limited enrolment: 170
Exclusion: SOC207Y, SOC317Y, SOC370Y
Prerequisite: SOCA01H & SOCA20H

SOCS56H3 Sociology of Mass Media and Communications: Institutions, Technologies and Politics
Focuses on key aspects of the development of media institutions and cultural policies in Canada. Topics include patterns of ownership and control; globalization of information; political communication and propaganda; legal and regulatory systems; cultural protection policies and national identity.
Limited enrolment: 170
Prerequisite: [SOCA01H & SOCA20H] or [SOCA01Y].
SOC357H3 Sociology of Mass Media and Communications: Texts and Audiences
An examination of mass media content, discourses and effects. Topics include representation of women and minorities; effect of televised violence on children; social construction of crime waves and moral panics; promotional culture; advertising and social change.
Limited enrolment: 170
Exclusion: SOC367Y
Prerequisite: [SOC2A1H & SOC2A2H] or [SOC2A1Y]

SOC358H3 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.
Limited enrolment: 170
Exclusion: (SOC3C1H, SOC3C6Y)
Prerequisite: SOC3A1H & SOC3A2H

SOC3C63H3 Collective Behaviour
The study of structurationist group behaviour - crowds, panics, crazes, riots and the genesis of social movements.
Limited enrolment: 60
Exclusion: SOC3A1H & SOC3A2H & [SOC3B05H or (SOC3B40H & SOC3B41H) & SOC3B42H & SOC3B43H]

SOC3C44H3 Social Movements
The development of an approach to social movements which includes the following: the origin of social movements, mobilization processes, the process of the movement and its internationalism. 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.
Limited enrolment: 60
Exclusion: SOC3A1H & SOC3A2H & [SOC3B05H or (SOC3B40H & SOC3B41H) & SOC3B42H & SOC3B43H]

SOC3C05H3 Gender and Information Technology
Examines the role of technology in the construction of gender. The course will focus on how gender is represented in the digital environment and how people interact with technology. Students will develop and apply analytical skills to understand gender and IT in everyday life.
Limited enrolment: 60
Exclusion: SOC3C50Y
Prerequisite: SOC3A1H & SOC3A2H & [SOC3B05H or (SOC3B40H & SOC3B41H) & SOC3B42H & SOC3B43H]

SOC3C08H3 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. Consider 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.
Limited enrolment: 60
Exclusion: SOC366H1
Prerequisite: SOC3A01H & SOC3A02H & [SOC3B05H or (SOC3B40H & SOC3B41H) & SOC3B22H & SOC3B42H & SOC3B43H & SOC3B45H]

SOC3C16H3 Gendered Beliefs, Gendered Lives and Inequalities
Individuals are socialized to act, think, behave and get treated in ways that are genderized. This course is a critical examination of gender in work, health, education, interpersonal relations, family life and parenthood. Socially constructed inequalities on the basis of gender will be challenged.
Limited enrolment: 60
Exclusion: SOC3C5H1, SOC3C5Y
Prerequisite: SOC3A01H & SOC3A02H & [SOC3B05H or (SOC3B40H & SOC3B41H) & SOC3B22H & SOC3B42H & SOC3B43H & SOC3B45H & SOC3B49H]

SOC3C11H3 Policing and Security
This course examines the role of policing and security programs in advanced liberal democracies. Attention will be paid to the nature of enforcement of national law by both state and private agents of order, as well as the dynamics of the institutions of the criminal justice system.
Limited enrolment: 60
Exclusion: SOC3C21H3, SOC3C3Y
Prerequisite: SOC3A01H & SOC3A02H & SOC3B41H & SOC3B42H & SOC3B43H & SOC3B51H & SOC3B53H

SOC3C16H3 Sociology of Conflict and Co-operation
An examination of international conflict and cooperation in the context of global change. This course begins with an examination of the nuclear arms race, then explores how technology, economics, population growth, and environmental factors interact to create interdependencies and afford new opportunities for world order. Special attention is given to North-South relations and to climate change.
Limited enrolment: 60
Prerequisite: SOC3A01H & SOC3A02H & [SOC3B05H or (SOC3B40H & SOC3B41H) & SOC3B42H & SOC3B43H]

SOC3C21H3 Sociology of Religion
An examination of religion as a social institution. Consideration of the problem of appropriate definition precedes close analysis of the writings of major classic theories on the topic of religious belief and practice. The continuing significance of this work in contemporary theory and research is investigated.
Limited enrolment: 60
Exclusion: SOC3C50Y, SLC210Y
Prerequisite: SOC3A01H & SOC3A02H & [SOC3B05H or (SOC3B40H & SOC3B41H) & SOC3B42H & SOC3B43H]
SOCC3H1 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.
Limited enrolment: 30
Exclusion: SOCC387H
Prerequisite: 10 credits including SOCA01H, SOCA02H, SOCB05H, SOCB06H & [a cumulative GPA of at least 2.7 or enrolment in the Specialist Program in Sociology or the Major Program in Public Policy].

SOCC2H1 Changing Family Life in Canada
A theoretical and empirical examination of different forms of family and the major changes in the structure and interactions of family life in Canada. Of special interest are topics like women and work, race/ethnicity and family diversities, declining birth-rates, high divorce rates and new reproductive technologies.
Limited enrolment: 60
Prerequisite: SOCA01H & SOCA02H & [SOCA05H or [SOCC04H] & [SOCC041H]] & SOCB42H & SOCB43H & [SOCB48H or SOCB49H].

SOCC2H2 Comparative Ethnic and Race Relations
Explores the formation of ethnic and racial identities within a range of nation-states, as well as the construction of diasporic or transnational cultural identities. Situates racism within broader sociological concerns with inequality, hegemony and counter-hegemonic processes.
Limited enrolment: 60
Prerequisite: SOCA01H & SOCA02H & [SOCA05H or [SOCC04H] & [SOCC041H]] & SOCB42H & SOCB43H & [SOCB48H or SOCB49H]

SOCC2H2 Sociology of Urban Growth
An in-depth examination of the conditions, patterns and consequences of urban growth and development. Major topics will include the emergence of new urban institutions (legal, political, economic) and the formation and operation of urban social networks.
Limited enrolment: 60
Exclusion: SOCC386Y
Prerequisite: SOCA01H & SOCA02H & [SOCA05H or [SOCC04H] & [SOCC041H]] & SOCB42H & SOCB43H & SOCB44H & SOCB45H.

SOCC2H2 Cross-Cultural Family Forms
A sociological and historical analysis of diverse family forms across the ages and in different geographic locations. How consensus versus conflict theories account for the changes in family forms and how substance patterns such as hunting-gathering, horticulture, agrarian and industrial patterns shape and alter the family forms and gendered roles will be analyzed.
Limited enrolment: 60
Prerequisite: SOCA01H & SOCA02H & [SOCA05H or [SOCC04H] & [SOCC041H]] & SOCB42H & SOCB43H & [SOCB48H or SOCB49H].

SOCC3H1 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.
Limited enrolment: 60
Exclusion: SOCC306Y
Prerequisite: SOCA01H & SOCA02H & [SOCA05H or [SOCC04H] & [SOCC041H]] & SOCB42H & SOCB43H & SOCB50H & SOCB51H.

SOCC3H1 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, collect statistical data, run data, and write up and present their findings.
Limited enrolment: 30
Exclusion: SOCC300H
Prerequisite: 10 credits including SOCA01H, SOCA02H, SOCB05H, SOCB06H & [a cumulative GPA of at least 2.7 or enrolment in the Specialist Program in Sociology or the Major Program in Public Policy].

SOCC3H1 Comparative Social Structure
A comparative analysis of social systems, social institutions and social organizations which attempts to link the specific to the general and the local to the global in the areas of social structure. Attention will be devoted to various case studies.
Limited enrolment: 60
Prerequisite: SOCA01H & SOCA02H & [SOCB05H or [SOCC04H] & [SOCC041H]] & SOCB42H & SOCB43H & [SOCC08H or SOCC09H].

SOCC3H1 Globalization and Transnationalism
Reviews current theoretical debates about the relationship between globalization, transnationalism, the nation and the state. Focuses on the ways in which transnationalism produces and processes transform and are reflected in the everyday lives of workers, citizen, and migrants.
Limited enrolment: 60
Prerequisite: SOCA01H & SOCA02H & [SOCC05H or [SOCC04H] & [SOCC041H]] & SOCB42H & SOCB43H & [SOCC08H or SOCC09H].

SOCC3H1 Social Change
An examination of processes of change in social structures, social institutions and social organizations grounded in the investigation of general theories of social transformation. Special attention is devoted to the nature, causes and consequences of socio-cultural changes in the contemporary world.
Limited enrolment: 60
Prerequisite: SOCA01H & SOCA02H & [SOCC05H or [SOCC04H] & [SOCC041H]] & SOCB42H & SOCB43H.
SOCI 373H 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.
Limited enrolment: 60
Exclusion: SOCI 355H
Prerequisites: SOCA 201H & SOCA 202H & [SOCB 205H or (SOCB 341H) & (SOCB 411H)] & SOCB 242H & SOCB 431H

SOCI 383H Gender and the Sociology of Higher Education
An examination of a number of key issues in the sociology of education, focusing particularly upon gender and higher education.
Limited enrolment: 60
Prerequisites: SOCA 201H & SOCA 202H & [SOCB 205H or (SOCB 341H) & (SOCB 411H)] & SOCB 242H & SOCB 431H

SOCI 399H Political Sociology
An examination of power in its social context. Specific attention is devoted to such topics as ideologies, parties, movements, nations, states and revolutions.
Limited enrolment: 60
Prerequisites: SOCA 201H & SOCA 202H & [SOCB 205H or (SOCB 341H) & (SOCB 411H)] & SOCB 242H & SOCB 431H

SOCI 403H Contemporary Sociological Theory Part I
The development of sociological theory from the end of World War II to the late 1960s. Special attention is devoted to the perspectives of Functionalism, Conflict Theory and Symbolic Interactionism.
Limited enrolment: 60
Exclusion: SOCI 385Y
Prerequisites: SOCA 201H & SOCA 202H & [SOCB 205H or (SOCB 341H) & (SOCB 411H)] & SOCB 242H & SOCB 431H

SOCI 413H Contemporary Sociological Theory Part II
The development of sociological theory from the 1960s to the present. Phenomenological, Social-Biological, Rational-Choice and other perspectives are explored.
Limited enrolment: 60
Prerequisites: SOCA 201H & SOCA 202H & [SOCB 205H or (SOCB 341H) & (SOCB 411H)] & SOCB 242H & SOCB 431H & SOCA 401H

SOCI 443H 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.
Limited enrolment: 60
Exclusion: [SOCB 345H, (SOCB 351H)]
Prerequisites: SOCA 211H & SOCA 212H & [SOCB 205H or (SOCB 341H) & (SOCB 411H)] & SOCB 381H & SOCB 421H & SOCB 431H

SOCI 445H Sociological Research Methods
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.
Exclusion: SOCI 399Y, SOCI 401H, SOCI 492H
Prerequisites: Completion of at least 15 full credits including SOCA 201H & SOCA 202H & [SOCB 205H or (SOCB 341H) & (SOCB 411H)] & SOCB 242H & SOCB 431H & permission of the instructor & permission of the sociology supervisor of studies.

SOCI 446H Advanced Seminar in Sociological Theory
Exploration of significant topics of interest in contemporary sociological theory. Designed for and restricted to students enrolled in the final year of the Specialist Program in Sociology.
Prerequisites: SOCA 211H & SOCA 212H & [SOCB 205H or (SOCB 341H) & (SOCB 411H)] & SOCB 242H & SOCB 431H & SOCA 401H & SOCA 406H & SOCA 411H

SOCI 447H Advanced Seminar in Research Methods
Special topics in quantitative and/or qualitative methodologies used in contemporary sociological research. Restricted to final year students taking a Specialist Program in Sociology.
Prerequisites: SOCA 211H & SOCA 212H & [SOCB 205H or (SOCB 341H) & (SOCB 411H)] & SOCB 242H & SOCB 431H & SOCA 401H & SOCA 411H

SOCI 448H Advanced Seminar on Issues in Contemporary Sociology
Exploration of current debates and controversies surrounding recent scholarly developments. Restricted to final year students taking a Specialist Program in Sociology.
Prerequisites: SOCA 211H & SOCA 212H & [SOCB 205H or (SOCB 341H) & (SOCB 411H)] & SOCB 242H & SOCB 431H & SOCA 401H & SOCA 411H
Statistics
(B.Sc.)

Faculty List
M. Evans, B.Sc. (Western Ontario), M.Sc., Ph.D., Professor
A. Hewitt, B.Sc. (Colombo), Ph.D. (Missouri), Senior Lecturer
K. Butler, Ph.D. (Simon Fraser University), Lecturer

Discipline Representative: TBA

Statistics permeates all aspects of our modern life and influences decisions in many fields of inquiry. Statistics is a subject that is essential for understanding and interpreting data in a wide range of fields, including business, economics, medicine, engineering, and the social sciences. It provides the tools for analyzing and drawing conclusions from data, which is critical for making informed decisions.

The Department of Statistics and Actuarial Science offers a comprehensive program of study that provides students with a strong foundation in statistical theory and methodology. The program is designed to prepare students for careers in industry, government, or academia, or for further study in graduate school.

Our curriculum is designed to provide students with a broad range of statistical methods and techniques, as well as an understanding of the underlying theory and principles. Students will learn how to apply statistical methods to real-world problems, and how to critically evaluate the results of statistical analysis.

Guideline for 1st year course selection:
Students who intend to complete the Major Program in Statistics should include [CSCA48H or PSICB2H], MATA25H, MATA35H, MATA36H, MATA37H, MATA38H, MATA45H, MATA46H, MATA47H, in their 1st year course selection.

Co-operative programs & Concurrent Teacher Education
The Specialist Program in Quantitative Analysis is available for inclusion in the Co-operative Program in Physical Sciences and in the Concurrent Teacher Education Program (CTEP). Please refer to the Physical Sciences section and the Concurrent Teacher Education section of this Calendar for further information.

Science Engagement Courses
For science experiential learning through community outreach (SCIB01H), classroom in-reach (SCIIB2H) and team research, please see the Science Engagement section of this Calendar.

SPECIALIST PROGRAM IN QUANTITATIVE ANALYSIS

Supervisor of Studies: M. Evans Email: evans@stat.utoronto.ca

The Program in Quantitative Analysis is an interdisciplinary program designed for students interested in applying mathematical ideas and analysis to problems in the biological sciences, social and health sciences, physical sciences, and in finance and risk management. After completing this program students will be well prepared to pursue professional careers as quantitative analysts, or to professional masters programs in such areas of application or to pursue research degrees in these fields that require a strong training in quantitative methods.

The program requires 13 credits in total. Students will be required to complete a culminating project course in their final year of studies that applies the computational, mathematical, or statistical skills they have acquired. It is strongly recommended that they complete the equivalent of a minor in an area of application. Suggested areas are: Mathematical Finance, Biological Sciences, Physical Sciences, and Social and Health Sciences. The program has streams corresponding to these. Students should select an area of application in consultation with the Supervisor of Studies. For the project course the student needs a supervisor in the appropriate department, also achieved in consultation with the Supervisor of Studies.

The Specialist Program in Quantitative Analysis is eligible for inclusion in the Co-operative Program in Physical Sciences and in the Concurrent Teacher Education Program (CTEP). Please refer to the Physical Sciences section and the Concurrent Teacher Education section of this Calendar for further information.

Program Requirements
Writing requirement (0.5 credits)
(should be completed prior to the end of their second year)

One of:

- ANA10H, ANA20H, CLA40H, ENGA10H, ENGA11H, ENGB06H, ENGB07H, ENGB08H, ENGB09H, ENGB17H, ENGB19H, ENGB30H, ENGB51H, GGRA0H, GGRA1H, GGRA2H, GGRA7H, HIMA1H, HIMA1H, ILSA01H, LTA01H, PHIA1H, PHIA1H, WSTA01H, WSTA02H
First Year (3.0 credits specified)
CSCA08H Introduction to Computer Programming
CSCA18H Introduction to Computer Science
CSCA55H Mathematical Expression and Reasoning for Computer Science
MATA23H Linear Algebra I
MATA36H Calculus I
MATA37H Calculus II for Mathematical Scientists

Second Year (4.0 credits specified)
CSCB07H Software Design
CSCB46H Introduction to the Theory of Computation
CSCB63H Design and Analysis of Data Structures
MATB24H Linear Algebra II
MATB44H Techniques of the Calculus of Several Variables I
MATB44H Differential Equations I
STAB52H Introduction to Probability
STAB57H Introduction to Statistics

Second, Third and Fourth Years
Students should choose a stream during their second year of studies which fits with the area of application that interests them.

Biological and Life Sciences Stream (5.0 credits)
CSCC43H Introduction to Databases
CSCD11H Machine Learning and Data Mining
MATB42H Techniques of the Calculus of Several Variables II
MATB61H Linear Programming and Optimization
or
CSCC73H Algorithm Design and Analysis
MATC46H Differential Equations II
STAC22H Multivariate Analysis
STAC32H Experimental Design
STAC32H Stochastic Processes
STAC57H Regression Analysis
Plus 0.5 additional full credits from ACT, CSC, MAT or STA courses at the B or above level.

Physical Sciences Stream (5.0 credits)
CSCC36H Numerical Algebra and Optimization
CSCC53H Numerical Approximation, Integration and Ordinary Differential Equations
MATB42H Techniques of the Calculus of Several Variables II
MATB43H Introduction to Analysis
MATC34H Complex Variables
MATC35H Chaos, Fractals and Dynamics
MATC46H Differential Equations II
STAC22H Stochastic Processes
Plus 1.0 additional full credits from ACT, CSC, MAT or STA courses at the B or above level.

Mathematical Finance, Management and Economics Stream (5.0 credits)
ACTB40H Fundamentals of Investment and Credit
CSCC36H Numerical Methods
CSCD11H Machine Learning and Data Mining
MATB42H Techniques of the Calculus of Several Variables II
MATB61H Linear Programming and Optimization
MATC46H Differential Equations II
STAC22H Time Series Analysis
STAC22H Stochastic Processes
STAC57H Regression Analysis
STAC57H Statistics and Finance

Social and Health Sciences Stream (5.0 credits)
CSCC36H Numerical Methods
CSCC43H Introduction to Databases
MATB61H Linear Programming and Optimization
STAC42H Multivariate Analysis
STAC321H Experimental Design
STAC57H1 Time Series Analysis
STAC63H1 Stochastic Processes
STAC67H1 Regression Analysis

Fourth year (0.5 credits)
One of:
CSCD49H1 Computer Science Project
MATD94H1 Mathematics Project
STAD94H1 Statistics Project

MAJOR PROGRAM IN STATISTICS

Supervisor of Studies: A. Hashim  Email: hashim@utsc.utoronto.ca

Recommended Writing Course: Students are urged to take a course from the following list of courses by the end of their second year.

ANTA30H1, ANTA40H1, CLA3A0H1, ENGA10H1, ENGA11H1, ENGB06H1, ENGB08H1, ENGB09H1, ENGB10H1, ENGB11H1, ENGB19H1, ENGB51H1, GGRA10H1, GGRA11H1, GGRA20H1, GGRA21H1, GGRA29H1, GGRA33H1, HUMA11H1, HUMA17H1, HUMA19H1, IGGI99H1, DLTA10H1, DLTA11H1, WSTA10H1.

Program Requirements
This program requires 8.0 full credits.

First Year
CSCA48H1 Introduction to Computer Science or
PSCB57H1 Introduction to Scientific Computing
MATA23H1 Linear Algebra I
MATA36H1 Calculus I
[or MATA36H1 Calculus II for Physical Sciences]

or
MATA37H1 Calculus II for Mathematical Sciences (recommended)

Second Year
MATH25H1 Linear Algebra II
MATH44H1 Techniques of the Calculus of Several Variables I
MATH42H1 Techniques of the Calculus of Several Variables II
STAB32H1 An Introduction to Probability*
STAB57H1 An Introduction to Statistics

Third and Fourth Year
STAC67H1 Regression Analysis*

2.0 full credits from any C (or 300-400 on St. George) level courses in STA
1.0 full credit from ACTB40H1 or ACTB47H1 or any C (or 300-400 on St. George) level courses in CSC, MAT or STA.

* STAB32H1, STAB57H1, STAC57H1 - These courses must be taken at UTSC. No substitutes are permitted without permission of the program supervisor

MINOR PROGRAM IN STATISTICS

Supervisor of Studies: A. Hashim  Email: hashim@utsc.utoronto.ca

Program Requirements
This program requires 4 full credits.

First Year (2.0 credits)
CSCA08H1 Introduction to Computer Programming
MATA23H1 Linear Algebra I
MATA30H1 Calculus I
MATA50H1 or MATA37H1 Calculus II for Physical/Mathematical Sciences

Second Year (1.0 credit)
STAB32H1 An Introduction to Probability
STAB57H1 An Introduction to Statistics
STAC67H1 Regression Analysis

In addition 0.5 credits must be chosen from any C or D level STA course but not STAD29H1.

SPECIALIST PROGRAM IN COMPUTER SCIENCE

This program has a Statistics stream. For more information, see the Computer Science section of this Calendar.

SPECIALIST PROGRAM IN MATHEMATICS AND ITS APPLICATIONS

This program has a Statistics stream. For more information, see the Mathematics section of this Calendar.

SPECIALIST PROGRAM IN NATURAL SCIENCES

(See the Physical Sciences section of this Calendar for more information.)

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. Exclusion: ACTC40H3, MGTC09H3. Prerequisite: [MATC39H3 & one of MATC33H3, MATA36H3 or MATA37H3] or [MATC27H3 & a cumulative GPA of 2.5 or higher]

Note: Students enrolled in or planning to enrol in any of the BBA programs are strongly urged not to take ACTB40H3 because ACTB40H3 is an exclusion for MGTC09H3 (MGTC03H), a required course in the BBA degree. Students in any of the BBA programs will thus be forced to complete MGTC09H3 (MGTC03H), even if they have credit for ACTB40H3, but will only be permitted to count one of ACTB40H3 and MGTC09H3 (MGTC03H) towards the 20 credits required to graduate from U of T Scarborough.

ACTB47H3 Introductory Life Contingencies

This course provides an introduction to insurance and annuity concepts from a mathematical point of view. Topics covered include: probability theory applied to survival and to cost and risks of life assurances, life annuities, and pensions, analysis of survival distributions, international actuarial notation, annuitization. Exclusion: ACTC47H. Prerequisite: ACTC40H1 & MGTC01H1 & STAB32H1

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: ANTC35H, ECMB09Y, ECMB11H, PSYB07H, SOCB06H, STAB62H, STAB57H, STA220H, STA258H

STAB27H3 Statistics II

This course follows STAB22H, 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. Exclusion: ECMB12H, STAB57H, STA221H, STA258H

Prerequisite: STAB22H

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. Exclusion: STADB32H, STA109H, STA257H

Prerequisite: MATA33H3 or MATA36H3 or MATA37H3

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. Exclusion: STA261H

Prerequisite: STAB52H

STAC42H3 Multivariate Analysis


Prerequisite: STAC57H

STAC52H3 Experimental Design

The statistical aspects of collecting and analyzing experimental data. Complete randomization and restricted randomization schemes. Exclusion: STA332H

Prerequisite: STAC57H
STAC570H3 Statistics and Finance
The course discusses the use of statistical methods in finance. Topics covered include returns, random walks and the efficient market hypothesis, portfolio theory, the capital asset pricing model, options pricing, value-at-risk, time series and GARCH models.
Prerequisite: ACTB40H & STAC67H

STAD209H3 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.
Exclusion: All C-level/300-level & D-level/400-level STA courses or equivalents except STA322H.
Prerequisite: STAB27H

STAD204H3 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 semester 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.
Visual and Performing Arts  271

E. Webster, B.A., M.A. (Toronto), Ph.D. (Case Western Reserve), Lecturer
L. Whiting, Dip. Op. Perf. (Toronto), Lecturer
K. Wright, Lecturer

Program Director: John Mayo (416-287-7191) Email: mayo@utsc.utoronto.ca

Art history, arts management, drama, music, and studio together constitute Visual and Performing Arts. Recognizing that much artistic work crosses the boundaries traditionally seen as separating one art form from another, Visual and Performing Arts invites exploration of the links and commonalities among the arts, in addition to providing opportunities for study in individual art areas.

All students will benefit greatly by going to the many arts events offered at U of T Scarborough, which include exhibitions in the Doris McCarthy Gallery and readings, plays, films and concerts. Events listings may be obtained from Arts & Events Programming (416-289-4709). Students should also consider participating actively in the choir or instrumental ensembles, the student gallery, or in the public productions in the Leight L. Browne Theatre. Please contact the program supervisors in music, studio or drama for details.

Specialist Programs
Arts Management
Art and Culture

Major Programs
Art History
Drama
Music and Culture
Studio

Minor Programs
Art History
Drama
Music and Culture
Studio

See below for co-op opportunities related to the Specialist Program in Arts Management. For Co-op opportunities related to the Specialist Program in Art & Culture and to the Major Programs above, please see the Humanities section of this Calendar. VPA Programs are outlined below. To find descriptions of individual courses see the end of program listings.

The VPA Study Guide is available at: http://www.utsc.utoronto.ca/%7Ehumdiv/VPA/VPA/studyguide/

SPECIALIST PROGRAMS IN ART AND CULTURE

Program Supervisor: J. Mayo (416-287-7191) Email: art-culture-program-supervisor@utsc.utoronto.ca

This program provides training in the visual and performing arts in a university setting, both for students who want a conceptual and historical knowledge of the arts and the inter-relationships among them, and for those who wish primarily to develop their practical abilities. The program is a basis for careers or further study for future practitioners in the arts, for gallery and museum professionals, for academics, and for those who want a thorough knowledge of history, theory and practice in the arts.

The core courses give a basic knowledge of music, visual art and drama, as well as opportunities to develop writing and computing skills and to explore arts concepts and theories. Beyond this core, options range from concentration in one area to work across all the arts. All students in the program are expected to take advantage of the opportunities that exist on this campus to participate in arts events and clubs, as spectators and members and, where appropriate, as artists.

Students following the Drama, Multi-Disciplinary, Music and Studio streams of this Program should consult the Major and Minor Programs in these areas for instructions concerning the required courses in Performance and Studio.

Program Requirements
The Specialist Program in Art and Culture requires the completion of 13.0 full credits in the multidisciplinary stream, 13.5 full credits in the Art History, Drama and Music streams and 14.5 full credits in the Studio stream within a twenty-credit degree. This program has six streams: Multi-disciplinary; Art History; Curatorial Studies; Drama; Music; and, Studio. These programs are designed to provide in-depth study in the Visual and Performing Arts.

SPECIALIST IN ART AND CULTURE (MULTI-DISCIPLINARY)
The Specialist in Art and Culture (Multi-Disciplinary) requires the following courses:

1. a) Two Minor Programs from the Visual and Performing Arts or One Minor Program from the Visual and Performing Arts and 4 full credits from Arts Management, the latter to be chosen in consultation with the supervisor and to include at least 1 full credit at the C level.

   plus

   One full credit in Visual and Performing Arts at the A- or B-level from an area outside those of the chosen Minor Programs.

   Approval of the Supervisor is required.

   or

b) Individual plan of study: a student may design a set of seven full credits, including two full credits at the C- or D-level, in
order to pursue an individual approach to a Visual and Performing Arts subject. The student must confer with the Supervisor and

get prior approval of the individual plan of study.

plus

Two full credits at the A- and/or B-level in Visual and Performing Arts from areas outside those of the individual plan of study.

plus

Approval of the Supervisor is required.

2. Core courses:

HUMB11H Critical Thinking, Reasoning and Decision Making
VPA00H Visual and Performing Arts in the Digital Age
VPA05H Introduction to Contemporary Cultural Theory
VPA03H Intermediate Seminar
VPA47H The Body in Modernity: Theories and Representations or VPA06H The Arts in a Pluralistic Society
VPA48H The Body in Contemporary Culture: Theories and Representations or VPAD06H Planning for Equity and Diversity in Arts Organizations
VPAD05H Senior Project

3. At least 1 additional full credit at the B level from the Visual & Performing Arts or another appropriate discipline, chosen in consultation with the Program Supervisor.

SPECIALIST IN ART AND CULTURE (ART HISTORY)
The Specialist in Art and Culture (Art History) requires the following courses:

1. The Major Program in Art History

plus

Two full credits at the A- and/or B-level in Visual and Performing Arts from areas outside of the Art History Major

2. Core courses:

HUMB11H Critical Thinking, Reasoning and Decision Making
VPA00H Visual and Performing Arts in the Digital Age
VPA05H Introduction to Contemporary Cultural Theory
VPA03H Intermediate Seminar
VPA47H The Body in Modernity: Theories and Representations
VPA48H The Body in Contemporary Culture: Theories and Representations
VPAD05H Senior Project

3. At least 1 additional full credit at the B-level from the Visual & Performing Arts or another appropriate discipline, chosen in consultation with the Program Supervisor.

SPECIALIST IN ART AND CULTURE (CURATORIAL STUDIES)
The Specialist in Art and Culture (Curatorial Studies) requires the following courses:

1. [HUMA01H Exploring Key Questions in Humanities

or

VPA05H Collaborations in the Visual and Performing Arts]

VPA10H Introduction to Arts Management
VPA15H Arts Education and Outreach
VPA20H Visual Arts Management: Principles and Practices

2. Seven full credits in Art History including:

VPHA46H Ways of Seeing: Introduction to Art Histories
VPHA7H Exhibiting Art
VPHA7H Museum and Curatorial Practice: Theoretical and Ethical Issues
VPHC54H Art Writing
VPHC72H Art, the Museum, and the Gallery
VPHD42H Curating Contemporary Art

3. Core courses:

HUMB11H Critical Thinking, Reasoning and Decision Making
VPA05H Introduction to Contemporary Cultural Theory
VPA06H Challenging Normative Values in Social, Political and Cultural Institutions
VPA03H Intermediate Seminar
VPA47H The Body in Modernity: Theories and Representations
VPA48H The Body in Contemporary Culture: Theories and Representations
VPAD05H Senior Project

4. At least 1 full credit at the B level from the Visual & Performing Arts or another appropriate discipline, chosen in consultation with the Program Supervisor.

Students in Curatorial Studies must maintain a minimum GPA of 2.5
SPECIALIST IN ART AND CULTURE (DRAMA)
The Specialist in Art and Culture (Drama) requires the following courses:

1. The Major Program in Drama
   plus
   Two full credits at the A- and/or B-level in Visual and Performing Arts from areas outside of the Drama Major

2. Core courses:
   HUM811H Critical Thinking, Reasoning and Decision-Making
   VPAAD06H Visual and Performing Arts in the Digital Age
   VPAB005H Introduction to Contemporary Cultural Theory
   VPA030H Intermediate Seminar
   VPA047H The Body in Modernity: Theories and Representations
   VPA048H The Body in Contemporary Culture: Theories and Representations
   VPA050H Senior Project

3. At least 1 additional full credit at the B level from the Visual & Performing Arts or another appropriate discipline, chosen in consultation with the Program Supervisor.

SPECIALIST IN ART AND CULTURE (MUSIC)
The Specialist in Art and Culture (Music) requires the following courses:

1. The Major Program in Music
   plus
   Two full credits at the A- and/or B-level in Visual and Performing Arts from areas outside of the Music Major

2. Core courses:
   HUM811H Critical Thinking, Reasoning and Decision Making
   VPAAD06H Visual and Performing Arts in the Digital Age
   VPAB005H Introduction to Contemporary Cultural Theory
   VPA030H Intermediate Seminar
   VPA047H The Body in Modernity: Theories and Representations
   VPA048H The Body in Contemporary Culture: Theories and Representations
   VPA050H Senior Project

3. At least 1 additional full credit at the B level from the Visual & Performing Arts or another appropriate discipline, chosen in consultation with the Program Supervisor.

SPECIALIST IN ART AND CULTURE (STUDIO)
The Specialist in Art and Culture (Studio) requires the following courses:

1. The Major Program in Studio
   plus
   Two full credits at the A- and/or B-level in Visual and Performing Arts from areas outside of the Studio Major.

2. Core courses required for all streams:
   HUM811H Critical Thinking, Reasoning and Decision Making
   VPAAD06H Visual and Performing Arts in the Digital Age
   VPAB005H Introduction to Contemporary Cultural Theory
   VPA030H Intermediate Seminar
   VPA047H The Body in Modernity: Theories and Representations
   VPA048H The Body in Contemporary Culture: Theories and Representations
   VPA050H Senior Project

3. At least 1 additional full credit at the B level from the Visual & Performing Arts or another appropriate discipline, chosen in consultation with the Program Supervisor.

VPAAD05H Visual and Performing Arts 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. Limited enrollment: 40. Priority will be given to students in VPA programs, New Media Studies and Humanities (Co-op). Exclusion: (CSCA302H)

VPAAD05H Collaborations in the Visual and Performing Arts
An introduction to interdisciplinary collaboration in art and culture.
Drawing on a wide range of examples from the disciplines of visual art, music, and theatre, in high art and popular culture, this course explores relationships between and across the arts, tracing the history and development of interdisciplinarity. Either this course or HUMAD01H is required in all VPA programs.
VPAC47H3 The Body in Modernity: Theories and Representations

An interdisciplinary course about the body in art, film, photography, narrative and popular culture. How bodies are written or visualized as representing normality or perversion, “feminine” or “masculine”, as heroic, as beauty or monstrosity, legitimacy or illegitimacy, nature or culture. Same as: ENGC 76H
Limited enrolment: 45
Exclusion: ENGC74H, (VPHC47H)
Corequisite: Two full credits at the B level or above from ENG, WST, VPA, VPH, and/or VPS, or permission of the instructor.

VPAC48H3 The Body in Contemporary Culture: Theories and Representations

A course focusing on the experience of the body in the public spaces of the modern city and in cyberspace. Of special interest will be the viewpoints of artists, writers, and filmmakers who explore how the “other” is constructed in terms of class, culture, and ethnicity. Same as: ENGC77H
Limited enrolment: 45
Exclusion: ENGC77H, (VPHC48H)
Corequisite: Two full credits at the B level or above from ENG, WST, VPA, VPH, and/or VPS, or permission of the instructor.

VPAC89H3 Sound and Spectacle: Intersections and Exchanges in Music and the Visual Arts

Bringing together students and instructors from music and art history, the seminar investigates selected historical and cultural themes through a study of unique intersections between these fields. An interdisciplinary approach encourages critical analysis and evaluation of interpretation, cultural context and reception from a variety of perspectives.
Corequisite: [VPHA44H & at least one VPH course at the B-level] or [at least one course from the sequence VPMB80H1-VPMB82H]
Recommended preparation: HUMA01H

VPAD05H3 Senior Project

This course allows for individual or collaborative projects at an advanced level. Students will be required to complete a project or series of works that reflect the research completed in VPAC35H.
Prerequisite: VPAC35H

VPAC06H3 Agency and Pluralism in Social and Cultural Transformations

Transformations in social and cultural institutions have been achieved through the agency of individuals who have embodied 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: VPAB06H or VPAB07H
Art History

Because art is perceived through the eyes and other senses as well as through the intellect, art history courses use slides, films, videos, and direct viewing of art works in galleries and museums and in the cities. Although some of the courses reflect a traditional structuring of art history by time periods, instructors often use new methodologies to explain the work within these periods.

Art history courses at the A-level and B-level are normally open to all students. In addition to the practice in critical thinking and writing provided by all Humanities disciplines, these courses offer basic information about painting, sculpture, architecture, and other arts, and a chance to improve perceptual awareness.

VPAB09H1, VPAC47H1, and VPAC48H1 are also art history courses and count towards the Art History Major and Minor programs.

Guidelines for 1st year course selection

Students who intend to complete an Art History program should include [VPAA05H1 or HUMA010H1] and an A level Art History course in their 1st year course selection.

Art History Study Guide is available at: http://www.utoronto.ca/ehum/VPAA/ArtHistory/studyguide/

MAJOR PROGRAM IN ART HISTORY

Program Supervisor: L. Carney (416-287-7171) Email: art-history-program-supervisor@utoronto.ca

Program Requirements

Students must complete seven full credits as follows:

1. [HUMA010H1 or VPAA05H1] plus one-half credit at the A-level in Art History.
2. Four full credits at the B-level in Art History (which may include VPAB09H1) Students may substitute one full credit from VPA or another discipline (such as VPAB05H1 or PHILB03H1) with the Supervisor's approval.
3. Two full credits in Art History at the C-D-level (which may include VPAC47H1, VPAC48H1, VPAC89H1, and/or HUMC52H1).

MINOR PROGRAM IN ART HISTORY

Program Supervisor: L. Carney (416-287-7171) Email: art-history-program-supervisor@utoronto.ca

Program Requirements

Students must complete four full credits from the courses below as follows:

1. [HUMA010H1 or VPAA05H1] plus one-half credit at the A-level in Art History.
2. Two full credits at the B-level in Art History.
3. One full credit in Art History at the C- or D-level, chosen in consultation with the Supervisor.

VPHA40H3 Ways of Seeing: Introduction to Art Histories

How and why are objects defined as Art? How do these definitions vary across culture 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), FAH102H1

VPHB44H3 The Human Figure in Greek Art (8th - 4th Centuries B.C.)

A study of representations of men and women in sculpture and vase painting, two of the richest media in Greek art. This study reveals narratives of myth and legend, reflections of everyday life in Greece, and social values such as the perception of gender. Corequisite: Any course in art history or VPAA05H or HUMA011H

VPHB42H3 Carolingian and Romanesque Art and Architecture

Major artistic and architectural monuments of Europe from the Carolingian renaissance to the renaissance of the twelfth century, considered in relation to geographical context, to monasticism and pilgrimage, to artistic developments of the contemporary Mediterranean world, and to the art and architecture of the later Roman Empire, Byzantium and Armenia, Islam and the art of the invasion period.

VPHB45H3 Paris: The Capital of the 19th Century: Impressionism and Post-Impressionism

Impressionist painting as a turning point in Western art, based in the rapidly expanding modernized city of Paris, "the capital of the nineteenth century," but ultimately turning to landscape as a major source of inspiration. Exclusion: FAH344H1, FAH378H1

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 ethnography and anthropology to contemporary African artists living on the continent and abroad. Prerequisite: None. Visual art studio students are encouraged to enroll.
VPHB52H3 Ancient Art and Architecture (ca. 500 B.C. - 300 A.D.)
The artistic achievements of Greece and Rome. This course examines Greek architectural design with its concerns for ideal proportion and balance; Roman technical innovations; and Classical painting and sculpture and their enormously influential techniques for creating illusions of the real world. Exclusion: FAH205H, FAH207H
Prerequisite: VPHA46H recommended

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 intensely new form of artistic expression in the high Middle Ages; and how they led on to the Renaissance. Exclusion: FAJ261H
Prerequisite: VPHA46H recommended

VPHB57H3 Women in the Arts: Hot Mamas, Amazons, and Madonnas
Women artists of the last 150 years, their relationships to "mainstream" art, and the influences of feminism on the production and reception of art. Exclusion: VWS209H
Prerequisite: [WSTA01H or WSTA05H or WSTA07H]] or VPHA46H or permission of the instructor

VPHB58H3 Modern Art and Culture
Nineteenth and twentieth century art in relation to the modern world. What 'modern' means when used to describe art, and how art is affected by the dynamic of modern economic, social, and political contexts of the modern world. Exclusion: FAH246H, FAH287H, FAH288H

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 the postmodern as artists' media, patterns of practice, and ideas about their relationships to the public and to their institutional contexts changed. Exclusion: FAH289H

VPHB60H3 Canadian Visual Art
What Canadian artists have made in the country's diverse cultural contexts, from 18th century churchs of Quebec, designed and decorated by talented family studios, to First Nations art and major twentieth century Anglo-Canadian and Quebecois painters. Exclusion: FAH246H, VPHB47H

VPHB61H3 Space, Place and the Arts
Artist David Hockney has said that the way we define space has a lot to do with how we behave in it. Here we examine different ideas and assumptions about space and place and perspective in painting, performance, installation and other arts, and what these may communicate to us. Exclusion: FAH398H, FAH399Y

VPHB63H3 Science, Vision, and Humanism in Renaissance Europe
This course is an introduction to European art and culture during the 15th and 16th centuries. Students will explore the rise of new artistic media and techniques, along with critical issues of social, cultural, intellectual and religious contexts that shaped the form and function of art made during this era. Exclusion: FAM230H, FAM254H
Prerequisite: VPHA46H

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. Exclusion: FAM221H, FAM279H
Prerequisite: VPHA46H

VPHB65H3 Exhibiting Africa: Spectacle and the Politics of Representation
Students will read critical texts on the politics of representation, postcolonialism, museology, and institutional critique to apply to the histories of exhibition and reproduction of African arts, in particular, and the arts of non-Western cultures in general. Prerequisite: VPHA46H or AFSA10H
Co-requisite: VPAIB05H or VPAIB06H

VPHB66H3 Representing Religions: The Rise of States, World Religions, and Art Patronage
This course will investigate the history of visual art in terms of religious art and how art was commissioned in the period of European expansion. We will examine the role of the patronage of art and the role of the visual arts in the construction of religious identities. Prerequisite: VPHA46H or VPAIB05H

VPHB67H3 Buddhist Arts and Cultures
This course will serve as an introduction to the field of Buddhist art history, with an emphasis on the relationships between visual arts, Buddhist philosophy and religion, and the cultural manifestations of the faith and its arts across the world. The classes will take advantage of collections at the ROM.

VPHB68H3 Art and the Everyday: Mass Culture and the Visual Arts
This course explores the relationship between visual arts and mass culture. We will examine the relationship between visual arts and mass culture, with an emphasis on the relationship between visual arts and mass culture. We will explore the relationship between visual arts and mass culture, with an emphasis on the relationship between visual arts and mass culture. We will explore the relationship between visual arts and mass culture, with an emphasis on the relationship between visual arts and mass culture. We will explore the relationship between visual arts and mass culture, with an emphasis on the relationship between visual arts and mass culture. We will explore the relationship between visual arts and mass culture, with an emphasis on the relationship between visual arts and mass culture. We will explore the relationship between visual arts and mass culture, with an emphasis on the relationship between visual arts and mass culture. We will explore the relationship between visual arts and mass culture, with an emphasis on the relationship between visual arts and mass culture. We will explore the relationship between visual arts and mass culture, with an emphasis on the relationship between visual arts and mass culture. We will explore
VPHC71H3 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: VPFA46H1

VPHB72H3 Museum and Curatorial Practice: Theoretical and Ethical
This course will introduce students to the theoretical contexts of museum practices and explore the ethics of curatorial practice. Students will investigate interpretations of sensitive material, including historical, cultural and religious artworks, and examine case studies of problematic challenges to curatorial responsibilities.
Prerequisite: VPFA46H1

VPHC42H3 Gothic Architecture
The development of Gothic architecture from the beginning of the twelfth century to the middle of the thirteenth century. Emphasis on Notre-Dame in Paris, the cathedrals of Chartres, Reims, and Amiens, and a select number of monuments in England. A discussion of the sculptural programs of these churches will be included.
Exclusion: FAH328H1, FAH351H3 (UTM only), FAH355H1
Prerequisite: One credit in art history at the B-level or permission of the instructor

VPHC45H3 Seminar in Twentieth-Century 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: One credit in modern art history at the B-level or permission of the instructor

VPHC45H3 Topics in Art of the Ancient World
A special topics course in ancient art and architecture. Concentrated study of a particular topic in ancient art, which will change from year to year.
Prerequisite: VPHB52H or permission of the instructor

VPHC45H3 Advanced Studies in Art Theory
This course will deal with selected recent historical 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: VPFA46H1 & [VPAD46H5 or VPAA46H5]
Corequisite: Two credits at the B-level in art history and/or studio, or permission of the instructor.

VPHC52H3 Issues in Contemporary Global Arts
The theoretical debates and institutional structures that surround the production, circulation and interpretation of the arts in a transnational art world, paying particular attention to the interplay of identity and visibility. Works by artists from throughout the globe, contributing to a global contemporary art discourse and genre will be considered.
Exclusion: VPHC36H1
Prerequisite: VPVB45H1, VPHE55H1, VPHE55H4 or permission of instructor

VPHC53H3 The Silk Routes
The Silk Routes were a network 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 Taklamakan regions.
Prerequisite: One full credit in art history or in Asian or medieval European history or permission of instructor

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).
Limited enrolment: 25
Prerequisite: 2 full credits at the B level from VPA, VPH, and/or VPS

VPHC55H3 Religion in the Arts: Hinduism and Jainism
This course explores Eastern religions and artworks, with a specific focus on Hinduism and Jainism in art from India, Pakistan and Sri Lanka. Investigation of context, use, and symbolism is paralleled with the examination of rituals, beliefs and performance. The classes will take advantage of collections at the ROM.
Exclusion: VPHE35H1
Prerequisite: VPHE66H1 or (HUMI046H) or permission of instructor

VPHC56H3 Religion in the Arts: The Judeo-Christian Traditions
This course will address how art gives expression to spiritual beliefs and reflects paraesthetic and iconographic debates operating across the culture of the Judeo-Christian worlds. Investigation of context, use, and symbolism is paralleled with the examination of rituals and beliefs. The classes will take advantage of collections at the ROM and the AGO.
Exclusion: VPHE35H1
Prerequisite: VPHE66H1
VPHC58H3 Religion in the Arts: Seminar in Buddhism and Art
An opportunity to explore in depth a topic of particular importance to Buddhist art. Topics vary depending on the research interests of the instructor in a given year.
Prerequisite: VPHB66H3

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 museums and library collections.
Limited enrolment: 15
Prerequisite: VPHIA46H & [VPHB63H3 or VPHB64H3]

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?
Exclusion: VPHIC52H3, ANTD52H3
Prerequisite: VPHB58H3 or VPHB59H3 or permission of instructor

VPHC68H3 Scholars and Aristocracy in Buddhist Art: The Literati and the Giltseats
This course explores the relationships between scholarly, religious and aesthetic traditions within the Buddhist world. The classes will take advantage of collections at the ROM and elsewhere in Toronto.
Prerequisite: VPHB66H3

VPHC70H3 Modern and Contemporary Arts and Visual Culture of the Middle East
This course will provide an in-depth look at a variety of visual practices in the modern and contemporary arts of the Middle East. Emphasis will also be placed upon the theoretical and methodological approaches required to address the works of artists from a diverse set of cultures in the region and within a large and varied diaspora.
Prerequisite: VPHIA46H & [VPHB58H3 or VPHB59H3] or permission of instructor

Arts Management

SPECIALIST PROGRAM IN ARTS MANAGEMENT
Program Supervisor: S.L Helwig (416-287-7163) Email: arts-management-program-supervisor@utoronto.ca
Arts Management is designed for students with an interest both in the arts and in the business of the arts, primarily from a non-artistic background. 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, and Museum or Curatorial Studies. For further information, see http://www.arts.utoronto.ca/artsmangement/

Program Admission
Enrolment in the program is limited and entry is competitive. Admissions are granted on the basis of applicants' academic performance, background in one or more of the arts, and demonstrated interest and potential ability in Arts Management.

VPHC71H3 Brazilian Modernism: Art and Architecture
Focusing on the 1950's and 60's, a privileged moment of Brazilian culture that was dominated by the boundary-free language of Modernism, this seminar explores how the architecture of Oscar Niemeyer, Vilanova Artigas and Affonso Eduardo Reidy, and Neoconcretist abstract art, were related to utopian modernist political and social visions of building a civilized world through education.
Prerequisite: VPHB58H3 or VPHB59H3 or permission of instructor

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 museum and galleries, giving direct insight into current exhibitions practice and their effects on viewer's experiences of art; students must be prepared to attend these classes.
Limited enrolment: 30
Prerequisite: VPHD71H & VPHD72H

VPHD41H3
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: One 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

VPHD43H3 Curating Contemporary Art
The elements of curatorial practice and the professional responsibilities of the curator, including the intellectual and practical tasks of planning, designing, and installing a contemporary art exhibition as well as critical writing about works of visual art in various contexts. Students will enable a curatorial premise and conduct research that will culminate in an exhibition with accompanying catalogue text.
Limited enrolment: 20
Prerequisite: VPHD71H & VPHD72H
Program Requirements
Students complete seven full credits in the arts management core program, two full credits in the management field, six to eight full credits from one or two related field(s). Continuous consultation with the Program Supervisor is strongly encouraged for all students in each year of their program.

1. Arts Management Core Courses
   a) The following five full credits:
      VPA1401H Introduction to Arts Management
      VPA1402H Audience and Resource Development
      VPA2405H Introduction to Contemporary Cultural Theory
      VPA2407H Equity & Diversity in Arts Organizations
      VPA2408H Financial Management for Arts Managers
      VPA2415H Arts Education and Outreach
      VPA2416H Managing and Leading in Cultural Organizations
      VPA2418H Planning and Project Management in the Arts and Cultural Sector
      VPA2419H Cultural Policy
      VPAD121H Senior Seminar in Arts Management
   b) One half credit from the following list:
      VPAC117H Arts Marketing
      VPAC118H Fundraising and Development in the Arts
   c) One half credit from the following list:
      VPAC119H Performing Arts Management: Principles and Practices
      VPAR110H Visual Arts Management: Principles and Practices
   d) One full credit from the following list:
      VPAC140H Legal and Human Resource Issues in Arts Management
      VPAD07H Agency & Pluralism in Social & Cultural Transformations
      VPAD131H Art, Culture, and Policy
      VPAD140H Independent Study in Arts Management

2. Management Field of Study
   The following four full credits are required:
   a) MGT100H Introduction to Management I
   b) MGT101H Introduction to Management II
   c) Plus one additional full credit from Management or Economics (normally at the C level).

   Note: Arts Management students have access to the following Management courses: MGTB233H, MGTB298H, MGT103H, MGT104H & MGT105H. Arts Management students interested in other Management courses must approach the Arts Management Program Supervisor before or very early in the enrollment period to discuss suitability and to request access. Prerequisite knowledge is required for these courses.

3. Related Field(s) of Study
   Six to eight full credits from one or two related fields of study. These courses must:
   a) Consist of six full credits of those credits required within the Major program in one of the artistic disciplines within Visual and Performing Arts (Art History, Drama, Music and Studio). Students choosing this option may wish to take one or two additional credits necessary to complete the Major program in place of unrelated elective courses.
   b) Consist of the eight full credits required of two Minor programs, at least one of which must be in a Visual and Performing Arts artistic discipline.

   The completion of a Major program in a chosen artistic field is particularly valuable for students contemplating graduate studies; additional areas of studies (offered by the double Minor option) may be valuable in certain fields of work and further studies.

   Depending on the option chosen in 3 above (Related Field(s) of Study) students require a further three to five full credits in order to meet the Honours B.A. requirement of twenty credits. Arts Management students are encouraged to use these credits to take courses outside their area(s) of concentration in order to broaden their understanding of contemporary issues and their historical context and to enhance their communication skills. It is strongly recommended that students take relevant courses such as HUMA101H (Exploring Key Questions in Humanities), HUMB11H (Critical Thinking, Reasoning and Decision Making) and VPAD07H (Agency & Pluralism in Social & Cultural Transformations) if not taken as a part of the Arts Management Program requirements under 1d above, Arts Management courses that are not chosen to fulfill requirements in 1b, 1c, and 1d above may be taken as electives.

Courses in the first two years of the program
The first year of study would normally consist of five full credits (10 courses - five in each of two sessions) including VPA1401H, VPA1402H, MGT100H, MGT101H, at least three courses from the related field(s) of study (including HUMA101H or VPA105H, and electives (preferably including HUMB11H). The second year of study would normally consist of five full credits to include VPAD07H, VPA131H, VPA164H, possibly VPA105H & VPA131H, and courses in the related field(s) of study.
SPECIALIST (CO-OPERATIVE) PROGRAM IN ARTS MANAGEMENT
Program Supervisor: S.L. Helwig (416-287-7160) Email: arts-management-program-supervisor@utoronto.ca
Co-op Contact: askcoop@utoronto.ca

The Co-operative Program in Arts Management is designed for students with an interest both in the arts and in the business of the arts, primarily from a not-for-profit perspective, and normally requires a four to five years to complete. It combines academic study in a wide variety of subjects with practical paid work experience, preparing 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, and Museum or Curatorial Studies. For further information, see http://www.arts.utoronto.ca/artsmanagement/

For information on admissions, fees, work terms and standing in the Program, please see the Co-operative Programs section of this Calendar.

Note: For information on the Co-operative Program in Humanities or the Management Programs which operate separately from the Specialist (Co-operative) Program in Arts Management, please see the Humanities Co-operative Program or the Management sections of this Calendar respectively.

Program Admission
Enrollment 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.

Program Requirements
Co-op students follow the course requirements specified above for the Specialist Program in Arts Management, plus the non-credit Arts & Science Co-op Work Term Preparation Course and the completion of two work terms of twelve to sixteen weeks each.

Courses in the first two years of the program
The first year of study would normally consist of five full credits (10 courses - five in each of two semesters) including VPA110H, VPA112H, MGT103H, MGT104H, at least three courses from the related field(s) of study (including HUMA11H or VAA101H), and electives (preferably including HUM11H). Students will also normally take the Co-op Work Preparation Course in the first full session (note that this is a non-credit course taken over and above the five credits in the first year).

The second year of study would normally consist of five full credits to include VPA210H, VPA215H, VPA215H, possibly VPA201H & VPA213H, and courses in the related field(s) of study.

Work terms
Two work terms are an integral part of the co-op curriculum. To be eligible for the first work term, students must be in good standing in the program (with a minimum 2.5 cumulative grade point average) and have completed at least 9.0 full credits including:

- Two full credits from Art History, Drama, Music or Studio
- VPA210H Introduction to Arts Management
- VPA212H Audience and Resource Development (or VPA212H & VPA214H)
- MGT104H Introduction to Management II and the the non-credit Co-op course
- Arts & Science Co-op Work Term Preparation

To be eligible for their second work term, students must be in good standing in the program (with a minimum 2.5 Cumulative Grade Point Average), have completed at least 12.5 full credits and have received a satisfactory evaluation of their performance and work term report for their first placement.

VPA210H 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.

VPA212H Audience and Resource Development
An introduction to the essential and interconnected areas of marketing and fundraising in the arts. Exclusion: (VPA212H, VPA214H)
Prerequisite: VPA110H
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. Excluding: MGTB03H1
Prerequisite: VPA10H1 & (VPAA12H2 or (VPAB12H1) or (VPAB14H1))

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 VPA10H1

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: VPA10H1 & (VPAA12H2 or (VPAB12H1) & (VPAB14H1)) or permission of instructor

VPAC15H3 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: At least 8.0 credits including VPA10H1 & [VPAA12H2 or (VPAB12H1) & (VPAB14H1)] & [VPAB16H1 or MGTB23H1]

VPAC16H3 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: VPAB10H1

VPAC18H3 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. Limited enrolment: 30 Prerequisite: 8.0 credits including VPA10H1

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: VPA10H1 & (VPAA12H2 & VPAB15H1) or (VPAB12H1)

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: VPA10H1 & (VPAA12H2 & VPAB15H1) or (VPAB14H1)

VPAC19H3 Performing Arts Management: Principles and Practices
An advanced investigation of arts management practice within theatre, music and other live performing arts organizations. This course will allow students to develop discipline-specific knowledge and skills and apply foundational knowledge to an understanding of the unique needs of this sector. Prerequisite: VPA10H1 & at least 2 full credits in Music or Drama & (VPAA12H1 or permission of the instructor)

VPAC20H3 Visual Arts Management: Principles and Practices
An advanced investigation of arts management practice within Canadian art galleries, museums and heritage institutions. This course will allow students to build on foundational studies and develop discipline-specific knowledge and skills through experiential methods and objective study. Prerequisite: VPAA10H1 & at least 2 full credits in Studio art or Art History & (VPAA12H1 or enrolment in Canadian Studies or permission of the instructor)

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: 1.5 full credits in Arts Management at the C- or D-level including VPAC13H1

VPAD13H3 Art, Culture, and Policy
An exploration of current theoretical issues in cultural policy and arts management, enabling students to synthesize and develop their prior knowledge of cultural theory and cultural policy. Adapting a case study approach, the course will examine issues and controversies in both the performing and the visual arts. Prerequisite: VPAC15H1
282 Drama

VPDA140H 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 supervisor in traditional or emerging subjects related to the field of Arts Management.
Limited enrolment: 6

Drama

The Drama Program has been devised to serve students who intend to major or minor in Drama, students who intend to specialize in Visual and Performing Arts, and students who have a casual interest in drama and theatre.
We offer two types of courses that complement each other: theoretical and practical. The theoretical courses are in the history of theatre and in special aspects of theatre history and theory. In the practical courses, students become acquainted with all aspects of theatre production in studio situations, both as actors and as technicians. In order to be admitted into the performance side of the program, students must successfully complete VPDA106H Introduction to Theatre.
Participation in public productions at U of T Scarborough is strongly encouraged.

Guidelines for 1st year course selection
Students who intend to complete a Drama program should include: [HUMA01H or VPA005H], VPDA106H & VPDA111H in their 1st year course selection.

The Drama Study Guide is available at: http://www.utoronto.ca/ehumdiv/vpa/drama/studyguide/

MAJOR PROGRAM IN DRAMA
Program Supervisor: Until June 30: M. Schenberg (416-287-7165). From July 1: P. Spertuso (416-287-7168) Email: drama-program-supervisor@utoronto.ca

Program Requirements
Students must complete seven full credits as follows:

1. [HUMA01H Exploring Key Questions in Humanities or VPA005H Collaborations in the Visual and Performing Arts]
2. VPDA106H Introduction to Theatre
   VPDA111H Introduction to Performance
   VPDB01H Intermediate Workshop in Performance I
   VPDB02H Intermediate Workshop in Performance II
3. VPDB03H Studies in Theatre History I: From the Greeks to 1642
   VPDB11H Studies in Theatre History II: From 1642 to World War One
   VPDB12H Studies in Modern and Contemporary Theatre
   VPDB13H Theatre in Canada
   or VPDB140H Introduction to Asian Theatrical Traditions
4. ENGB23H Drama: Tragedy
   ENGC27H Drama: Comedy
5. 1.5 additional credits in VPD, one full credit of which must be at the C- or D-level
   In fulfilling requirement #5, students may substitute one full credit from VPA or another discipline with the Supervisor's written permission. The following courses are particularly recommended:
   VPSM15H Religion in the Arts: Seminar in Buddhism and Art
   VPSM37H Performance Art
   VPSM73H Music for the Theatre
   ENGB14H Twentieth-Century Drama
   ENGB23H Shakespeare in Context I
   ENGB33H Shakespeare in Context II
   ENGC100H Studies in Shakespeare
   VPAC44H The Body in Modernity: Theories and Representations
   VPAC48H The Body in Contemporary Culture: Theories and Representations

Exclusion: MGTD08H
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 Supervisor by the last date of classes in the previous academic session.
MINOR PROGRAM IN DRAMA
Program Supervisor: Until June 30: M. Schonberg (416-287-7165). From July 1: P. Spersakos (416-287-7168) Email: drama-program-supervisor@uottawa.ca

Program Requirements
Students must complete four full credits as follows:

1. [HUMA001H Exploring Key Questions in Humanities or VPAA005H Collaborations in the Visual and Performing Arts]
   or [VPDA021H Introduction to Theatre (VPDA021H Introduction to Performance or VPDA15H Introduction to the Fundamentals of Acting)]
   And at least two of the following courses: VPDB10H, VPDB11H, VPDB12H, VPDB13H, VPDB14H
   Note: Students who do not qualify for either VPDA021H or VPDA15H should take at least four of the following courses:
   VPDB10H, VPDB11H, VPDB12H, VPDB13H, VPDB14H

3. 1.5 additional credits in Drama, one full credit of which must be at the C- or D-level.

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 VPDA10H will admit students to subsequent VPA-Drama performance courses.
Limited enrolment: 80
Exclusion: DRMD030H, (VPDA01H1, VPDA02H)

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.
Limited enrolment: 16
Exclusion: DRMD020H, (VPDA01H1, VPDA02H), VPDA15H
Prerequisite: VPDA10H1 & permission of VPA-Drama Teaching Staff

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.
Limited enrolment: 16
Exclusion: (VPDA01H1), VPDA11H1
Prerequisite: VPDA15H1 & permission of VPA-Drama Teaching Staff

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: [VPDA10H1 & VPDA11H1] or [VPDA10H1 & VPDA15H1] & permission of the U of T Scarborough VPA-Drama Program Teaching Staff

VPDB02H3 Intermediate Workshop in Performance II
A continuation of VPDB01H with an emphasis on more advanced performance techniques.
Prerequisite: VPDB01H1 & permission of the instructor

VPDB03H3 Technical Production II
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: DRMD254H

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.

VPDB10H3 Studies in Theatre History I: From the Greeks to 1642
A study of theatre history from classical Greece until the closing of the theatres in England.
Using a thematic rather than chronological approach, this course will examine Western theatre within the given period, as well as in terms of the social and cultural function of theatre as an art form.
Exclusion: DRMD260H, DRMD262H
VPC01 H3 Studies In Theatre History II: From 1642 to World War One
A study of theatre history from the Restoration through the rise of modernism.
Using a thematic rather than a chronologica l approach, this course will examine Western theatre within the given period, as well as in terms of the social and cultural function of theatre as an art form.

VPC02 H3 Studies In Modern and Contemporary Theatre
A study of twentieth-century theatre history. The developments in and practice of Western theatre from the post-World War One era to the present day. Exclusion: DRC256H

VPC03 H3 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: DRC268H

VPC04 H3 Introduction to Asian Theatrical Traditions
An introduction to some of the major theatrical traditions of Asia. Students will read translations of plays and study some of the theatrical aspects of Oriental theatre in lectures and seminars. Recorded and visual materials will be used extensively.

VPC05 H3 Advanced Workshop: Performance
A continuation of the exploration of advanced performance techniques begun in VPC03 H3. Exclusion: DRC407H
Prerequisite: VPC03 H3 & VPC05 H3 & permission of the U of T Scarborough VPA-Drama Program Teaching Staff

VPC06 H3 Directing for the Theatre
The practical study of basic 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, directorate communication and rehearsal technique, and will culminate in the presentation of short plays.
Limited enrolment: 18
Prerequisite: VPC06 H1 & VPC06 H2 & permission of the instructor

VPC07 H3 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: VPC06 H3

VPC08 H3 Writing About/For the Live Theatre
A course intended for students who wish to learn about writing analytically or critically for the theatre, and/or who are interested in writing short pieces for the stage.
Prerequisite: VPC05 H1 or permission of the instructor

VPC09 H3 American Musical Theatre
A survey of the development of American musical theatre. Through research into and discussion of American musical theatre history, artists, and landmark productions, students will develop a critical understanding of the form; attendance at a local professional musical production will allow for discussions about the influence of the form on theatre in Canada.
Limited enrolment: 40
Prerequisite: 2 full credits in Visual & Performing Arts courses or permission of instructor

VPC10 H3 “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.
Same as VPS007 H3
Limited enrolment: 6
Exclusion: VPS347 H1
Prerequisite: [VPS900 H1 & VPS902 H] or [VPS907 H] & permission of instructor

VPC11 H3 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.
Limited enrolment: 12
Prerequisite: VPD06 H1 & VPD06 H2 & permission of instructor

VPC12 H3 Modern and Contemporary Comedy
A study of the comic form in modern and contemporary theatre and film.

VPC01 H3 Special Topics in Theatre I
Special topics for intensive practical and/or theoretical study of some specific aspects of theatre. The topic to be explored in this course will change from session to session. Further information can be found on the VPA - Drama website
Limited enrolment: 15
Prerequisite: Any 4 full credits in Drama or permission of the Program Supervisor.

VPC11 H3 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: VPC05 H1 & permission of the UTSC VPA-Drama Teaching Staff
Music

Guidelines for course selection: Music studies normally begin with VPMA79H, VPMA80H, and VPMA90H, which serve as the prerequisites for more advanced courses in all areas. These core music program courses are designed with the students with RCM Grade II Rudiments or equivalent competence (fluency in reading music notation and tonal music rudiments). Involving students must register in the course appropriate to their level of musical training, based on the results of an online music placement test. The placement test is MANDATORY for all students who register for the first time in VPMA79H, VPMA80H, and VPMA90H, and should be completed before the beginning of classes in September. All students who are not admitted into the initial program courses VPMA79H and VPMA80H on the basis of their placement test results will be advised to take VPMA80H as a preparation for future program study. Students who do not complete the online placement test and fail to register in the appropriate level of course according to the results specified by the test. Enrollment status in VPMA79H, VPMA80H, and VPMA90H will show as INT until placement results are confirmed. Students who register for these courses without completing the test will be dropped. Please see the Humanities Music webpage for details and a link to the online placement test:


Note that students should take VPMA79H, VPMA80H, and VPMA90H within the first year of program study, and that the core music program courses must be taken in appropriate sequence. Normally, an A-level VPM course should not be taken at the same time as, or after, a B-level VPM course. Please do not hesitate to consult Program Supervisors and other faculty members for further advice about course selection and Programs.

Performance Courses

The following performance courses are available to all qualified faculty, staff, and students, some on a non-credit basis. Entrance is by audition/audition held during Orientation or the first week of classes in Fall and Winter sessions. Details are posted on the bulletin board outside AA-303 Music Studio and on the web Study Guide. Credit students should register for the course, but will be admitted only upon successful completion of the interview/audition. There are three separate groups available under Instrumental Ensemble.

Section 02, Jazz Band - Section 30.
VPMA70H Concert Choir 1a
VPMA71H Concert Choir 1b
VPMA73H Instrumental Ensemble 1a
VPMA74H Instrumental Ensemble 1b
VPMB70H Concert Choir 2a
VPMB71H Concert Choir 2b
VPMB73H Instrumental Ensemble 2a
VPMB74H Instrumental Ensemble 2b
VPMC70H Concert Choir 3a
VPMC71H Concert Choir 3b
VPMC73H Instrumental Ensemble 3a
VPMC74H Instrumental Ensemble 3b

General Interest Courses

Listening to Music, Elementary Musicanship I, Music of the World's Peoples, Music for the Theatre, Jazz, Popular Music, Film

Music assume no previous experience in music.

These courses provide an opportunity for individual exploration in areas involving the practice of theatre: directing, producing, design, playwriting, screenwriting, etc. Prerequisite: One full credit in Drama at the C-level & permission of the Program Supervisor.

VPD048H3 Special Topics in Theatre II

Selected advanced topics for intensive practical and/or theoretical study of some specific aspect of theatre. The topic to be explored in this course will change from session to session. The course will normally be offered during the Winter session. Further information can be found on the VPA / Drama website Limited enrollment: 12.

Prerequisite: VPD046H3 or permission of the Program Supervisor.
Major and Minor Program Courses
The three core II level courses, VPMIB80H VPMIB82H, cycle frequently during the three academic sessions. C-level courses are offered on a three-year rotational cycle during the F and W sessions only.
A-level and C-level Materials of Music courses are normally offered in the Fall session only; B-level Materials is normally offered in the Winter session.

MAJOR PROGRAM IN MUSIC AND CULTURE
Program Supervisor: S. Lee (416-287-7191) Email: music-program-supervisor@utsc.utoronto.ca

Program Requirements
Students are required to complete seven and one half (7.5) credits as follows:

1. (HUMA001H Exploring Key Questions in Humanities or VPAAD5H Collaborations in the Visual and Performing Arts)

VPMAD01H Introduction to Music I
VPMAD02H Introduction to Music II
VPMAD03H Materials of Music I
VPMAD04H Music of the World's Peoples
VPMAD05H Materials of Music II
2. One and one-half (1.5) credits from the sequence VPMIB80H to VPMIB82H.
3. One half (0.5) credit chosen from the following courses:

VPMIB70H Music in Islamic Cultures
VPMIB77H Music in Religion and Ritual
VPMIB78H Balinese Gamelan: Performance and Context
VPMIB79H Performing Arts of Asia
VPMIB99H Popular Music in a Cross-Cultural Context
4. One and one-half (1.5) credits chosen from VPAC389H and the sequence VPMCB80H to VPMCB96H. Qualified students may substitute one half credit from VPMDD80H to VPMDD88H.
5. One (1.0) full credit in Performance.

MINOR PROGRAM IN MUSIC AND CULTURE
Program Supervisor: S. Lee (416-287-7191) Email: music-program-supervisor@utsc.utoronto.ca

Program Requirements
Students are required to complete four (4.0) full credits as follows:

1. (HUMA001H Exploring Key Questions in Humanities or VPAAD5H Collaborations in the Visual and Performing Arts)

VPMAD01H Introduction to Music I
VPMAD02H Introduction to Music II
VPMAD03H Materials of Music I
VPMAD04H Music of the World's Peoples
2. One full credit from the sequence VPMIB80H to VPMIB82H.
3. A half credit chosen from VPAC389H and the sequence VPMCB80H to VPMCB96H.

VPMAT01H Concert Choir Ia
The practical study of a wide range of music from the choral repertoire, including performance in the UTSC Assembly Hall. The course is offered in Winter Session.
Prerequisite: VPMAT01H
Exclusion: VPMAT01H

VPMAT02H Concert Choir Ib
A continuation of VPMAT01H
Prerequisite: VPMAT01H

VPMAT03H Instrumental Ensemble Ia
The practical study of ensemble performance. There are three available ensembles: Concert Band (Section 01), String Ensemble (Section 02) and Jazz Band (Section 03). Audition/interview required. Students may participate in more than one ensemble concurrently with a limit of 3 full credits in total. Students are normally expected to complete both Fall and Winter Session (a and b) in the same ensemble.
Exclusion: VPMAT03H

VPMAT04H Instrumental Ensemble Ib
A continuation of VPMAT03H
Exclusion: VPMAT03H
Prerequisite: VPMAT03H
Music 287

VPA9T7H3 Introduction to Music History I
A study of the basic materials, principles of design, and cultural significance of Western music, preparing students for further studies in music at the university level. Online music placement test required. Students are normally expected to complete VPA9T7H and VPA8T8H in the same academic year.
Prerequisite: Royal Conservatory of Music Grade II Rudiments or equivalent; online music placement test required.

VPA9T7H3 Introduction to Music History II
A continuation of VPA9T7H3 (Introduction to Music History I). Students are normally expected to complete VPA9T7H3 and VPA8T8H in the same academic year.
Prerequisite: VPA9T7H3

VPA9T8H3 The Language of Music
This course develops students’ understanding of the elements of Western Notational music, emphasizing the ability to recognize sound structures and to read and write them in musical notation. It prepares students for study in the music major and minor programs and provides foundations for a wide range of musical activities.
Prerequisite: Online music placement test required.

VPA9T9H3 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. Online music placement test required.
Prerequisite: Royal Conservatory Grade II Rudiments or equivalent; online music placement test required.

VPA9T9H3 Listening to Music
An introduction to the language of music for non-musicians through a survey of musical styles, genres and development of intelligent listening skills. No previous musical experience is necessary. Exclusions: VPA9T9H3 may not be taken after or concurrently with VPA9T7H or VPA9T8H.

VPA9T9H3 Elementary Musicianhip I
A practical introduction to musicianship and music fundamentals through the development of basic vocal or instrumental techniques and an emphasis on aural skills.

VPA9T9H3 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: MUSIC007H.

VPMB77H3 Concert Choir Ia
A continuation of VPMB77H1.
Prerequisite: VPMB77H1.

VPMB77H3 Concert Choir Ib
A continuation of VPMB77H2.
Prerequisite: VPMB77H2.

VPMB77H3 Instrumental Ensemble Ia
A continuation of VPMB77H.
Exclusions: VPMB77H2.
Prerequisites: VPMB77H1 or (VPMA8T8H)

VPMB77H4H Instrumental Ensemble Iib
A continuation of VPMB77H.
Exclusions: VPMB77H2.
Prerequisite: VPMB77H2.

VPMB77H3 Music in Islamic Cultures
An exploration of the relationship between music and Islam, and its manifestations in different genres (religious, folk, classical, popular) and regions (from the Middle East to Indonesia, as well as the global diaspora). This course examines the variety of musical expression within cultures linked by Islamic religion and values.
Recommended preparation: VPMA9T9H.

VPMB77H3 Music in Religion and Ritual
An examination of the role of music in the context of religion and ritual in many cultures. We will examine general theories and several ethnographic examples ranging from ancient shamanistic and animistic rituals in Central Asia and Indonesia, to music in Christian, Buddhist, Hindu, and Muslim world religious traditions.
Recommended preparation: VPMA9T9H.

VPMB77H3 Balinese Gamelan: Performance and Context
An introduction to the repertoire 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.
Recommended preparation: VPMA9T9H.

VPMB77H3 Performing Arts of Asia
An exploration of music, dance and drama in East Asia, Southeast Asia and South/Central Asia with particular reference to religious, folk, classical genres, tribal and folk traditions and popular/contemporary developments.
Recommended preparation: VPMA9T9H.

VPMB77H3 Music in the Baroque and Classical Eras
An examination of music in Western Society during the period ca. 1600 to ca. 1800. This course integrates close analysis of selected compositions with a study of the historical, social, cultural, and political contexts of music-making during this period.
Exclusion: (VPMB77H3).
Prerequisites: VPMA9T9H, VPMA9H8H or VPMA9T9H.

VPMB77H3 Music in the Romantic Era
An examination of music in Western society during the period ca. 1800 to ca. 1900. This course integrates close analysis of selected compositions with a study of the historical, social, cultural, and political contexts of music-making during this period.
Exclusion: (VPMB77H3).
Prerequisites: VPMA9T9H, VPMA9H8H or VPMA9T9H.
VPMB2103 Music in the Modern and Contemporary Eras
An examination of music in Western society during the period ca. 1900 to the present.
This course integrates close analysis of selected compositions with a study of the historical, social, cultural, and political contexts of music-making during this period.
Exclusion: (VPMB214H1)
Prerequisite: VPMA99H1 & VPMA90H & VPMA90H

VPMB90H3 Materials of Music II
A continuation of VPMA90H1.
Prerequisite: VPMA90H1 or Royal Conservatory Grade III harmony or equivalent.

VPMB93H3 Music for the Theatre
An introduction, across time and cultures, to how music is combined with other arts in the theatre. Broad topics of study include opera, film music, puppet theatre, dance-drama, ballets, and musicals. Students will study audio-visual materials and, where possible, attend live performances. No previous musical experience is required.
Recommended preparation: VPMA91H1 or VPMA98H1

VPMB94H3 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.
No previous musical experience is required.

VPMB95H3 Elementary Musicianship II
A continuation of Musicianship I; preparing students for further theoretical studies and/or participation in one of the performance ensembles (Concert Choir, Concert Band, Jazz Band, String Ensemble).
Prerequisite: VPMA95H1

VPMB96H3 Popular Music
An examination of the genres and history of twentieth-century popular music with particular attention to its social and commercial contexts. The course will focus on developments during the 1950s and 1960s—including rock & roll, soul, folk-rock, and the British invasion—examining the performing styles and recordings of legendary "stars".
No previous musical experience required.

VPMB97H3 Film Music
An introduction to the techniques and history of music for films. A survey of the ways music is used in the cinema from its inception to the present day, with an emphasis on the collaboration between film composers and directors.
No previous musical experience required.

VPMB98H3 Popular Music in a Cross-Cultural Context
Popular music in a multi-cultural world.
Development of popular music in a global context.
Topics include mass media (recordings, film, radio, etc.), urbanization, social and political issues, pop icons, dance and cultural migration.
Recommended preparation: VPMA99H1

VPMC70H3 Concert Choir Iva
A continuation of VPMB71H1.
Prerequisite: VPMB71H1

VPMC71H3 Concert Choir Iib
A continuation of VPCM70H3.
Prerequisite: VPMC70H1

VPMC73H3 Instrumental Ensemble Ila
A continuation of VPMC74H1.
Exclusion: (VPMB22H1)
Prerequisite: VPMC74H1 or (VPMB92H)

VPMC74H3 Instrumental Ensemble Iib
A continuation of VPMC73H1.
Exclusion: (VPMB22H1)
Prerequisite: VPMC73H1

VPCM80H3 Opera
A thematic approach to the study of opera.
Students will study and analyze selected scenes, using libretto, scores, and audio-visual materials, and attend live productions where possible to enhance their appreciation of the art form and to develop their critical skills.
Prerequisite: VPMB90H1 & one course from the series VPMB80H1-VPMB82H1 or (VPMB88H1)(VPMB89H1) or permission of instructor.

VPCM81H3 The Orchestra and its Music
A study of the changing musical, social, and economic context of the orchestra and the variety of music written for it. Evolving configuration of the ensemble, patronage and location (theatre, church, court, conservatory, city, etc.); representative examples of music from different periods; changing audiences and societies; mechanical reproduction.
Prerequisite: VPMA90H1 & one course from the series VPMB80H1-VPMB82H1 or (VPMB88H1)(VPMB89H1)

VPCM82H3 Topics in Canadian Music
A thematic approach to the study of music in Canada. Topics include the formation of Canadian musical identity, the development of artistic organizations and institutions, and detailed analyses of musical compositions.
Prerequisite: VPMA90H1 & one course from the series VPMB80H1-VPMB82H1 or (VPMB88H1)(VPMB89H1)

VPCM83H3 Music and Gender
An inquiry into the construction and reflection of gender and sexual identities in Western music. The course will emphasize discourses surrounding feminism and the role of women in music, masculinity studies, and gay, lesbian, bi-sexual and transgendered studies and their relationships to musical genres, works, production and reception.
Exclusion: HMU207H1
Prerequisite: VPMA90H1 & two courses from the sequence VPMB80H1-VPMB82H1 or (VPMB88H1)(VPMB89H1)
VPMB66H3 Issues, Approaches, and Exchanges in Popular Music
An examination of issues in the study of western and non-western popular music and their intersection with other fields of humanistic inquiry. It will explore models of critical analysis and questions surrounding ideology, performance, reception, technology, and the relationship of popular music to other media, including cyber-space, film, and television. Prerequisite: At least 1.0 full credit in Humanities at the B level.

VPMB66H3 Special 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 course website. Prerequisite: VPMB90H & one course from the series VPMB81H1-VPMB82H or (VPMB82H1-VPMB82H2)

VPMB66H3 Materials of Music II
Introduction to musical composition through the application of techniques studied in Materials of Music I and II. Students will be encouraged to develop their individual musical styles and to create original works. Prerequisite: VPMB90H

VPMB66H3 Introduction to Electronic Music
An introduction to understanding electronic, electroacoustic and computer generated music and developing creative skills in these media through theoretical, aesthetic, and practical perspectives. Limited enrolment: 12
Prerequisite: VPMB90H, and at least one other VPM course at the B level
Recommended: VPMB82H

VPMB66H3 Orpheus
An examination of the myth of Orpheus and the variety of interpretations it has inspired in music and the other arts. Exclusion: (VPMB72H)
Prerequisite: Two courses from the series VPMB81H1-VPMB82H
Recommended: VPMB90H

VPMB66H3 Piano Roles
A socio-cultural history of the piano. This course examines the development of the instrument from the early fortepiano to its present form, its repertoire and performers, and its changing roles and associations during its 300-year history. Limited enrolment: 40
Exclusion: (VPMB77H)
Prerequisite: VPMB90H & 2 courses from the series VPMB81H1-VPMB82H

VPMB66H3 Musical Diasporas in Canada and the USA
This course examines the unique role of music and the arts in the construction and maintenance of transnational identity in the North American diaspora. Topics under study will cover a wide range of communities (e.g. Asian, Caribbean and African) and places (e.g. Los Angeles, Toronto and Detroit)
Prerequisite: VPMA99H & [1.0 full credit in VPM courses at the B-level or permission of instructor]

VPMB66H3 Music in the Medieval and Renaissance Eras
An examination of music in Western society during the period ca. 500 to ca. 1600. This course integrates close analysis of selected compositions with a study of the historical, social, cultural, and political contexts of music-making during this period.
Exclusion: (VPMB86H)
Prerequisite: VPMA90H & 2 courses from VPMB81H1-VPMB82H

VPMB66H3 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 (Concert Choir, Concert Band, Jazz Band).
Note: Students must submit a proposal of study for approval, and must obtain consent from the supervising instructor and the music program supervisor.
Prerequisite: A minimum overall average of 8.0 in VPM courses, and at least one (1.0) full credit in music at the C-level, not including credits in performance. Students in the Composition option must also have completed VPMB90H. Students in the Performance/research option must also have completed VPMB72H or VPMB74H. Students are strongly advised to arrange their independent study well in advance of the beginning of the session.

VPAC69H3 Sound and Spectacle: Intersections and Exchanges in Music and the Visual Arts
See the general Visual and Performing Arts section of this Calendar for a full course description.

Studio
The Studio curriculum is built around the idea that art is a means of expressing and understanding the human condition. It does not include courses in commercial or advertising art. The studio experience is intended to expand the student's perception of what art is, why and how it is made, and to develop the student's ability to understand and experience the challenges of contemporary art. Critical skills will expand along with practical skills.
The Studio Study Guide is available at: http://www遴nce.utoronto.ca/;%2Ehumfiv/VPA/Studio/studyguide/

Guidelines for 1st year course selection
VPAS62H Foundation Studies in Studio, which covers basic media and concepts through practice and discussion, must be taken with its co-requisite VPAS63H But Why is it Art? before advancing to other studio courses.
Students will be expected to purchase the materials necessary for each course. An estimate of the costs is available from the Program Supervisor or the instructor.

**MAJOR PROGRAM IN STUDIO**

Program Supervisor: T. Mars (416-287-7137) Email: studio-program-supervisor@utsc.utoronto.ca

This program will give the student a full and broad exposure both to the various processes of art-making and to recent developments in art criticism. It provides some preparation for teaching at the high school or elementary level.

We strongly urge students to take additional art history courses dealing with modern and contemporary art.

**Program Requirements**

Students must complete eight full credits including:

1. [HUMA01H Exploring Key Questions in Humanities or VPA005H Collaborations in the Visual and Performing Arts]
   VPSA02H Foundation Studies in Studio
2. VPSA04H Ways of Seeing: Introduction to Art Histories
   VPSA05H But Why Is It Art?
3. VPSA07H Drawing I
   VPSA07H Drawing II
4. At least one-half credit from:
   VPSG54H Theory and Practice: Two-Dimensional Work
   VPSG67H Theory and Practice: Three-Dimensional Work
   VPSG68H Theory and Practice: Time-Based Media
   VPSG69H Theory and Practice: Global Art Strategies
   VPSG70H Theory and Practice: New Media in Studio
5. One full credit at the D-level.
6. 3.5 further credits from courses in VPS. Students may substitute 1 full credit from VPA or another discipline with the PRIOR written permission of the Program Supervisor.

**MINOR PROGRAM IN STUDIO**

Program Supervisor: T. Mars (416-287-7137) Email: studio-program-supervisor@utsc.utoronto.ca

**Program Requirements**

Students are required to complete a total of four full credits as follows:

1. [HUMA01H Exploring Key Questions in Humanities or VPA005H Collaborations in the Visual and Performing Arts]
   VPSA02H Foundation Studies in Studio
2. VPSA07H Drawing I
3. One-half credit from:
   VPSG54H Theory and Practice: Two-Dimensional Work
   VPSG67H Theory and Practice: Three-Dimensional Work
   VPSG68H Theory and Practice: Time-Based Media
   VPSG69H Theory and Practice: Global Art Strategies
   VPSG70H Theory and Practice: New Media in Studio
4. VPSA03H But Why Is It Art?
5. 1.5 credits in VPS, one at the C- or D-level.

**VPSA02H Foundation Studies in Studio**

An introduction to the importance of content and context in the making of contemporary art. Limited enrolment: 20 per section

**VPSA03H But Why Is It Art?**

An investigation of the basic elements and concepts of painting through experimentation in scale and content. Limited enrolment: 20 per section

**VPSA07H Drawing I**

Prerequisite: VPSA07H or (VPSA07H)

**VPSG54H Theory and Practice: Two-Dimensional Work**

Prerequisite: VPSA07H or (VPSA07H)
VPSA63H3 But Why in Art?
This introductory seminar examines the key themes, concepts, and questions that affect the practice of contemporary art. We will look at specific cases in the development of art and culture since 1900 to understand why and how contemporary art can exist as such a wide-ranging set of forms, media and approaches.
Limited enrolment: 70
Exclusion: VISI200H1
Prerequisite: VPSA62H3 & VPSA63H1
Corequisite: VPSA64H3 (Although not required, it is recommended that students take these courses prior to enrolling in VPSA704H.)

VPSA71H3 Introduction to Sculpture
This course introduces students to the use of three-dimensional materials and processes for creating sculptural objects. Traditional and non-traditional sculptural methodologies and concepts will be explored.
Limited enrolment: 15. Preference will be given to students in Arts Management Co-op, Humanities Co-op, Studio and VPA specialist programs.
Prerequisite: VPSA62H3 & VPSA63H1

VPSA72H3 Introduction to Photography
An introduction to fundamental photographic concepts including depth, focus, speeded 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 postmodernity.
Limited enrolment: 15. Preference will be given to students in Arts Management Co-op, Humanities Co-op, Studio and VPA specialist programs.
Prerequisite: VPSA62H3 & VPSA63H1
Corequisite: VPSA74H1

VPSA73H3 Introduction to Video
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.
Limited enrolment: 15. Preference will be given to students in Arts Management Co-op, Humanities Co-op, Studio and VPA specialist programs.
Exclusion: VISI203H1
Prerequisite: VPSA62H3 & VPSA63H1

VPSA74H3 Introduction to Digital Studio Practice
An introduction to pixel and vector-based, two-dimensional image processing, printmaking and web illustration. Basic digital skills and quality control issues will be addressed through studio investigation of Adobe Photoshop and the production of professional digital prints.
Limited enrolment: 15
Exclusion: VISI218H1
Prerequisite: VPSA42H3 & VPSA63H1

VPSB26H3 Painting II
A continuation of Painting I with an emphasis on images and concepts developed by individual students.
Limited enrolment: 20
Exclusion: VISI220H1
Prerequisite: VPSA61H1 or (VPSB61H1)

VPSB63H3 Sculpture Concepts
An investigation of the changes in sculpture in the 20th century with an emphasis on contemporary art.
Limited enrolment: 15
Exclusion: VISI204H1
Prerequisite: VPSA71H1

VPSB64H3 The Machine in Art
Students will produce art projects using mechanical principals to create sculptural forms that change over time. Students will be encouraged to use old machines, simple electronics components and a wide range of materials.
Limited enrolment: 15
Prerequisite: VPSA71H1
Corequisite: VPSB63H1 (Although not required, it is recommended that students take this course prior to enrolling in VPSB64H1.)

VPSB66H3 Site-Specific Work
This studio/seminar continues the explorations begun in Installation but advances less literal understandings of site artwork shaped by place but place defined by such potentials as audience, community or debate. Projects may incorporate a variety of media that expand the physical boundaries of art beyond the object.
Limited enrolment: 15
Exclusion: VISI60H1
Prerequisite: VPSA73H1

VPSB71H3 Books and Multiples
An exploration of the history and use of handmade books and multiples by visual artists.
Limited enrolment: 20
Exclusion: VISI321H1
Prerequisite: VPSA701H or VPSA723H1 or VPSA741H1

VPSB74H3 Drawing II
A continuation of VPSA701H with an increased emphasis on the student’s ability to expand her/his personal understanding of the meaning of drawing.
Limited enrolment: 20
Exclusion: VISI211H1
Prerequisite: VPSA701H or (VPSB701H)

VPSB75H3 Photo-based Work
A studio course in digital photography as it relates to the critical investigation of contemporary photo-based art.
Limited enrolment: 15
Prerequisite: VPSA723H1 & VPSA741H1
Corequisite: VPSB80H1
VPSS87H3 Intermediate Video
This course is designed to provide a history of contemporary video art production. The course will familiarize students with more advanced methods of production and contemporary video works. Classes will include technical instruction, screenings and discussions of tapes, critiques of student's scripts and footage, written assignments and assigned readings.
Limited enrolment: 15
Exclusion: VI3830H
Prerequisite: VPSS73H or permission of instructor

VPSS87H3 Performance Art
An exploration of both the history and practice of performance art.
Limited enrolment: 15
Exclusion: VI3830H
Prerequisite: One half credit in VPS or [VPDA100H & VPDA111H] or [VPDA010H & VPDA020H] or permission of instructor

VPSS88H3 Digital Studio Practice
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, image 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.
Limited enrolment: 20
Exclusion: VI3831H
Prerequisite: [VPSS72H & VPSS74H] or permission of instructor

VPSS91H3 Installation
This studio-seminar explores site from a historically informed conception of the practice: artwork shaped by location in terms of material, form and content with a special focus on museum projects and architectural interventions. Projects may incorporate a variety of media that expand the physical boundaries of art beyond the object.
Limited enrolment: 15
Exclusion: VI3830H
Prerequisite: VPSS61H or VPSS76H or VPSS71H or VPSS72H or VPSS74H

VPSS82H3 Introduction to Web-based Work
Information Age artists are employing inexpensive, global, web-based strategies to publish and promote their work. Other artists use blogs and desktop broadcasting to produce original, online ecritures that can engage distant and critical collaborations in real time. Artists will each create an elementary, personal web site toward these ends.
Limited enrolment: 20
Prerequisite: VPSS74H
VPSC57H3 "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. Same as VPDC30H.
Limited enrolment: 6
Exclusion: VPDC30H
Prerequisite: [VPDS70H3 OR VPDS70H1 & VPDB02H1] & permission of instructor.

VPSC58H3 Advanced Photo Concepts
Focuses on both theory and practice; this is a portfolio-based course aimed at the development of idiosyncratic photographic styles and subject matter. Printing and presentation will form an important part of this portfolio's development. Students will research international networks, publications and institutions devoted to photographic discourse.
Limited enrolment: 15
Exclusion: VIBA87H1
Prerequisite: VIBA00H1 OR VIBA05H1

VPSC58H3 Advanced Installation
This course will focus on all aspects of large-scale installation including architecture, projections, multi-media, and conceptual works.
Limited enrolment: 15
Exclusion: VIBA87H1
Prerequisite: VIBA00H1 & 1.5 full credits in Studio at the B- or C-level

VPSC62H3 Advanced Video
An advanced course focusing on complex video techniques and contemporary presentation strategies. The course will cover such areas as video projection, multi-channel works, feature length projects and advanced post-production techniques.
Limited enrolment: 15
Exclusion: VIBA87H1
Prerequisite: VIBA00H1 & 1.5 additional full credits in Studio at the B- or C-level

VPSC66H3 Theory and Practice: Two-Dimensional Work
An exploration of ideas and practice with an emphasis on two-dimensional work, including digital imaging.
Limited enrolment: 15
Exclusion: VIBA87H1
Prerequisite: At least 1.0 full credit at the B- or C-level in courses dealing with two dimensions or permission of instructor.

VPSC67H3 Theory and Practice: Three-Dimensional Work
An exploration of ideas and practice with an emphasis on three-dimensional work.
Limited enrolment: 15
Exclusion: VIBA00H1
Prerequisite: At least 1.0 credit at the B- or C-level in courses dealing with three dimensions or permission of instructor.

VPSC68H3 Theory and Practice: Time-Based Media
An exploration of ideas and practice with an emphasis on time-based media: performance, video, audio, and installation.
Limited enrolment: 15
Exclusion: VIBA00H1
Prerequisite: 1.0 full credit in VPS at the B- or C-level in courses dealing with time-based media or permission of the instructor

VPSC69H3 Theory and Practice: Global Art Strategies
The course will focus on the increasing globalization of contemporary art practices. This course will examine the influence of colonial histories, migration, international media, cultural exchange and tourism in the works of international artists. Students will be asked to reflect on their own culturally diverse backgrounds as a source for conceptually based art projects.
Limited enrolment: 15
Exclusion: VIBA87H1
Prerequisite: 1.0 full credit in Studio at the B- or C-level or permission of instructor

VPSC70H3 Theory and Practice: New Media in Studio
Information technologies are radically and rapidly transforming our culture. Networking, robotics, WiFi, GPS, ubiquitous computing, data mining, RFID, biohacking, kinetic art, 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.
Limited enrolment: 15
Exclusion: VIBA87H1 & VIBA00H1 or VIBA05H1 or VIBA07H1 or VIBA09H1 or VIBA00H1 & 0.5 additional credit at the B- or C-level or permission of instructor.

VPSC72H3 Performing for 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.
Limited enrolment: 15
Exclusion: [VIBA87H1 OR VIBA00H1 & VIBA02H1] & [VIBA07H1 OR VIBA09H1 OR VIBA01H1] or permission of instructor.

VPSC73H3 Public Art
This course will explore the plethora of cultural and technical issues that arise when artists produce work in the public realm. We will study public art that ranges from ephemeral interventionist work to large-scale commissions. Students will be required to do field research, write proposals, and prepare models for real public sites.
Limited enrolment: 20
Exclusion: [VIBA00H1 & VIBA05H1] & 0.5 additional credit at the B- or C-level in Studio.
VPSC7393 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.
Limited enrolment: 15
Exclusion: VISP232H
Prerequisite: VISP748H & 0.5 additional credit at the B- or C-level in Studio.

VPSC749H Advanced Web-Based Projects
This course explores web project strategies to include Flash animation, pod casting, time-based productions, interactive java script, web-traffic monitoring services and play forms for gathering reader data and feedback. The goal of this course is to produce individual web sites that are visually engaging, interactive and practically useful to the professional artist.
Limited enrolment: 15
Prerequisite: VISP882H & 1.0 additional full credit at the B- or C-level in Studio.

VPSC7593 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.
Limited enrolment: 15
Prerequisite: VPSA471H & VISP663H & 0.5 additional half credit at the B- or C-level in Studio or permission of instructor.

VPSC6503 Advanced Special Topics in Studio
Selected topics for intensive practical and theoretical study in studio. Topics will change from session to session.
Limited enrolment: 20
Exclusion: VISP401H, VISP402H, VISP403H, VISP404H, VISP410H
Prerequisite: 1.5 full credits at the C-level in Studio.

VPSC693H Advanced Studio Practice
An advanced course for students ready to work independently on their own projects. Students will be expected to work on their projects from conception to a final exhibition in the student-run gallery. Students may work in their choice of media with the written permission of the instructor.
Limited enrolment: 20
Exclusion: VISP320H, VISP401H, VISP402H, VISP403H, VISP404H
Prerequisite: 1.5 full credits in Studio at the C-level.

VPSC657H3 Advanced Seminar: Interdisciplinary Practice
An opportunity for students in VPS to explore aspects of contemporary interdisciplinary practice and theory. Students will make work in their choice of media with the written permission of the instructor.
Limited enrolment: 20
Exclusion: VISP401H, VISP402H, VISP403H, VISP404H
Prerequisite: 1.5 full credits at the C-level in Studio.

VPSC659H3 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.
Limited enrolment: 15
Prerequisite: 1.5 full credits in Studio including [VPSA664H or VPSA673H or VPSA681H or VPSA691H or VPSA701H].

VPSC659H3 Advanced Seminar: Three-Dimensional Work
This studio-seminar will address contemporary issues in sculpture and installation art through independent art production, research, discussions, presentations, and assigned readings. Students are expected to develop a body of exhibition quality work and professional support materials.
Limited enrolment: 15
Prerequisite: 1.5 full credits in Studio including [VPSA664H or VPSA673H or VPSA681H or VPSA691H or VPSA701H].

VPSC660H3 Advanced Seminar: Time-Based Media
A course for students ready to work at the advanced level on time-based projects in performance, video, audio and/or installation. Emphasis will be on complex, substantial works that address contemporary conceptual and theoretical issues, interdisciplinary strategies, as well as excellence in presentation and execution.
Limited enrolment: 15
Exclusion: VISP302H, VISP303H
Prerequisite: 1.5 full credits at the C-level in Studio including [VPSA664H or VPSA673H or VPSA681H or VPSA691H or VPSA701H].

VPSC663H3 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.
Exclusion: VISP401H, VISP402H, VISP403H, VISP404H
Prerequisite: At least 15 full credits & completion of the major in studio & written permission of the instructor in the previous session.

VPIN423H Curating Contemporary Art
See Art History in the Visual and Performing Arts section of this Calendar for a full course description.
Women's and Gender Studies

Faculty List
C. Bertrand-Jennings, L. & L. (Paris), Ph.D. (Wayne State), Professor Emerita
F. Jacoby, M.A., Ph.D. (York, Canada), Professor
A. Sevrie, B.A., M.A. (Windsor), Ph.D. (York, Canada), Professor
L. Carty, M.A. (Columbia), Associate Professor
M.B. Goldman, M.A., (Victoria), Ph.D. (Toronto), Associate Professor.
P.C. Hsiang, B.A. (National Chiao-ting University), M.A. (Chinese Cultural University), M.A., Ph.D. (UCLA), Associate Professor.
L. Lange, B.A., M.A. (Manitoba), Ph.D. (Toronto), Associate Professor
M. Latif, B.A. (Kasana), M.A., Ph.D. (Toronto), Associate Professor
D. McCarthy, B.A. (Toronto), Associate Professor
P. Spectorsky, B.A. (McGill), M.A., Ph.D. (Toronto), Associate Professor
D.E. Bender, M.A., Ph.D. (New York), Assistant Professor
K.R. Larose, M.Phil., M.L.S. (Oxford), Ph.D. (Toronto), Assistant Professor
K. Liddle, B.A. (Oberlin), M.A. (Auburn), Ph.D. (Emory), Assistant Professor
M. Mahani, B.A. (Dalhousie), Ph.D. (London), Assistant Professor
A. Maurier, M.A., Ph.D. (Cornell), Assistant Professor
A. Mullen, B.A. (California), M.A., Ph.D. (Yale), Assistant Professor
Y. Tahami-Heidari, Ph.D. (York, Canada), Assistant Professor
C. Guberman, B.A. (Manitoba), M.E.S. (York), Senior Lecturer
L. Larrie, B.A. (Dalhousie), M.F.A. (York), Senior Lecturer
T. Marx, Senior Lecturer
J. English, M.A., PhD. (Toronto), Lecturer
N.C. Johnston, M.A., Ph.D. (York, Canada), Lecturer

Program Director: N. Johnston Email: johnston@ustc.utoronto.ca (416-284-4707)

Women’s and Gender Studies is an interdisciplinary program that examines the development, transmission, and transformation of ideas and attitudes about women and gender across different historical periods, societies, and cultures. The program integrates theory and practice by introducing students to scholarship from a wide range of disciplinary perspectives and challenging them to work for change and equality in their communities and in their daily lives. Women’s and Gender Studies courses invite students to consider topics such as women’s roles in society, history, philosophy, and religion; gender and the media; women and work; gender, race and class; international development; gender and sexuality; women and politics; women and literature; gender and language; women and social change; women and the family; and gender and the arts. The Women’s and Gender Studies program at U of T Scarborough is unique in that it benefits from the interdisciplinary structure of the Humanities department while also reaching further across disciplinary boundaries through its strong affiliation with the Social Sciences. Students will develop critical and analytic skills as they learn, write, and communicate that will shape their research and their ability to work on issues involving women and equity at the community level. The program at U of T Scarborough also emphasizes the diversity of women’s lives and experiences globally, particularly in relation to differences in race, ethnicity, class, age, sexual orientation, and disability; the diversity of our student body greatly enriches our consideration of these issues. A degree including Women’s and Gender Studies will enable students to assess how women’s roles across disciplines impact our understanding of society and history and our actions, past and present, within local and global communities. Students preparing for a career in education, research, business, administration, government, law, journalism, social work, equity issues, or activism are encouraged to consider enrolment in a Women’s and Gender Studies program.

Guidelines for 1st year course selection
Students who intend to complete a Women’s and Gender Studies program should include WSTA01H1 & WSTA03H1 in their 1st year course selection. Students are also encouraged to take HUMA01H1 (Exploring Key Questions in the Humanities) as early as possible in their studies.

The Women’s Studies Study Guide is available at: http://www.ustc.utoronto.ca/%7Ehumd/Womens_Studies/studyguide/index.htm

MAJOR PROGRAM IN WOMEN’S AND GENDER STUDIES
Program Supervisor: L. Carty (416-287-7171) Email: wst-program-supervisor@ustc.utoronto.ca

Program Requirements
Students must complete seven full credits as follows:

1. WSTA01H1 Introduction to Women’s Studies and WSTA03H Introduction to Theories of Feminism
2. WSTB05H Fundamentals of Research in Women’s Studies
3. WSTB11H Race, Class and Gender
4. WSTC02H Applied Research in Women's and Gender Studies
5. WSTC01H Senior Project in Women's Studies
   or WSTC03H Senior Seminar in Health, Sexualities and the Gendered Body/Representations and Constructions of Women and Gender
   or WSTC04H Senior Seminar in Gender, Equity and Human Rights/Gender, Local and Global Communities
   or One D-level elective cross-listed with WST, with the approval of the program supervisor
6. One further credit in WST
7. 3 credits from the list below (students should check course descriptions for prerequisites):

   Please note that courses have been organized into four thematic clusters to assist students in planning - there is no program requirement related to the clusters.

   **Cluster #1: Health, Sexuality, and the Gendered Body**
   - ANTC15H Genders and Sexualities
   - ANTD01H The Body in Culture and Society
   - ENGC76H3/VPAC47H1 The Body in Modernity: Theories and Representations
   - ENGC77H3/VPAC48H1 The Body in Contemporary Culture: Theories and Representations
   - GRRD10H Health and Sexuality
   - HLTC102H Women and Health: Past and Present
   - PYSD101H Psychology of Gender
   - PYSD202H Socialization Processes
   - WSTC121H Women: Issues of Violence and Safety

   **Cluster #2: Representations and Constructions of Women and Gender**
   - ENGB51H Women and Literature: Forging a Tradition
   - ENGB51H Gender and Genre
   - ENGB34H1 Early Modern Women and Literature: 1500-1700
   - ENGB39H1 Women and Canadian Writing
   - LINC28H1 Language and Gender
   - PHLB13H1 Philosophy and Feminism
   - PSYD18H1 Psychology of Gender
   - SOCC19H1 Gender and Information Technology
   - VPHB37H1 Women in the Arts: Hot Humans, Amazonas, and Madonnas
   - VPMC33H1 Music and Gender
   - WSTC13H1 Women and the Media
   - WSTC12H1 Writing the Self: Autobiographies of Global Francophone Women
   - WSTC16H1 Criminal Women: Gender, Justice and the Media

   **Cluster #3: Gender, Equity, and Human Rights**
   - GASIS20H Gender and Social Institutions in Asia
   - MGTCC23H1 Diversity in the Workplace
   - POLC76H1 Women in Political and Social Thought
   - POLC77H1 Women in Political and Social Thought II
   - SOCC10H1 Sociology of Gender and Work
   - SOCC10H1 Gendered Selves, Gendered Lives and Inequalities
   - SOCC30H1 Gender and the Sociology of Higher Education
   - WSTC101H Women: Initiatives for Change
   - WSTC14H1 Women, Community and Policy Change
   - WSTC15H1 Feminism, Education, and Literacy

   **Cluster #4: Gender, Local and Global Communities, and Diaspora**
   - ANTC14H1 Feminism and Anthropology
   - GASIS20H Gendering Global Asia
   - GED00H1 Feminist Geographies
   - HISG45H1 Immigrant and Race Relations in Canadian History
   - HISD30H1 Gendering America
   - HISD46H1 Selected Topics in Canadian Women's History
   - HISD50H1 Coolie Plantations and South Asian Diasporas
   - SOCC48H1 Family and Society
   - SOCC49H1 Family in Transition
   - SOCC61H1 Changing Family Life in Canada
   - SOCC20H1 Cross-Cultural Family Forms
   - WSTC15H1 Women in the Cyberspace: Transnational Feminist Networks and Activism
MINOR PROGRAM IN WOMEN'S AND GENDER STUDIES

Program Supervisor: L. Cartey (416-28-d7-7171) Email: wist-program-supervisor@utoronto.ca

Program Requirements
Students must complete four full credits as follows:

1. WSTA01H Introduction to Women's Studies
   and/or
   WSTA03H Introduction to Theories of Feminism
2. WSTB05H Fundamentals of Research in Women's Studies
3. WSTB11H Race, Class and Gender
4. Two further credits in Women's and Gender Studies at the B, C, or D level and/or from the list of courses in other disciplines which deal with women's gender issues provided in #7 in the Major Program at least one of these credits must be at the C- or D-level.

WSTA01H Introduction to Women's 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

WSTA03H Introduction to Theories of Feminism
An introduction to feminist theories with a focus on the diverse, multidisciplinary and multicultural expressions of feminist thought. An overview of the major perspectives, concepts and terminologies in feminist thinking and an exploration of their meanings. Exclusion: (NEW160Y), WGS160Y, WGS200Y

WSTB05H Fundamentals of Research in Women's and Gender Studies
An examination of topical and critical research in women's issues from a cross-cultural and interdisciplinary perspective. Fundamentals of conducting research are examined. This course will provide practice in critical analysis of contemporary issues as they affect women globally. Issues will be drawn from a range of disciplines including history, sociology, education, literature, the arts and sciences. Prerequisite: WSTA01H & WSTA03H or (WSTA02H) or permission of the Instructor

WSTA01H Women: Initiatives for Change
An examination of local and global movements for change, past and present, 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. Exclusion: (WSTA02H)
Prerequisite: WSTA01H & WSTA03H or permission of the Instructor

WSTB11H Race, Class and Gender
An overview of the complex interactions among race, class and gender in traditional and modern societies. Drawing on both historical and contemporary parallels 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: WSTA01H & WSTA03H or (WSTA02H) or permission of the instructor

WSTB12H3 Women: Issues of Violence and Safety
An analysis of violence against women and initiatives toward creating safety. We will take a historical, cultural, and structural approach to studying family, state, economic, and ideological violence against women. We will explore initiatives toward making communities safer, including strategies for prevention and education. Exclusion: (NEW373H), WGS373H
Prerequisite: WSTA01H & WSTA03H or (WSTA02H) or one half credit from the list provided in #6 in the Major Program or permission of instructor.

WSTB13H3 Women and the Media
An interdisciplinary approach to feminist critiques of the media. The representation of women will be examined in media such as films, television, video, newspapers, magazines and radio. Students will also develop a perspective on women's participation in, and contributions toward, the various media industries. Exclusion: (NEW271Y), WGS271Y
Prerequisite: WSTA01H & WSTA03H or (WSTA02H) or permission of the instructor
WSTC120H3 Applied Research in Women's and Gender Studies

Students will design and conduct a qualitative research project about women. Field work is the basis of this course. It will also include an overview of the various phases of carrying out research: planning the research project, choosing appropriate methods for data collection, analyzing the data and reporting the results.

Limited enrolment: 15
Exclusion: WSTD02H
Prerequisite: WSTA01H & WSTA03H & WSTB03H & 1.5 full credits taken from the courses listed in 63 and 67 in the Major Program

WSTC160H3 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.
Exclusion: (NEW422Y), WGS425Y
Prerequisite: WSTA01H & WSTA03H or (WSTA02H)
or IDS010H or IDS020H or permission of the instructor

WSTC161H3 Applied Study in Women and Development

An examination of a critical problem within the global context as it affects women in their communities. The class as a whole will determine the issue under consideration.
Exclusion: (WSTC160Y), (NEW425Y), WGS425Y
Prerequisite: WSTC160H

WSTC121H3 Writing the Self: Autobiographies of Global Francophone Women

An exploration of the ways in which French-speaking women from different countries construct the gendered subject in their representations of childhood, sexuality, work, maternity and illness. Texts will be read in English and an emphasis will be placed on the cultural contexts of gender, ethnicity and class.
Limited enrolment: 50
Prerequisite: ENG500H or (WSTA01H & WSTA03H or (WSTA02H) & any ENG or FREN literature course) or permission of instructor.
Recommended preparation: WSTB13H

WSTC135H3 Women, Gender and Islam

Explores historical and contemporary debates regarding the construction of gender in Islam. Topics include the historical representations of Muslim women, 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.
Exclusion: WSTC301H (if taken in the 2008 Winter Session)
Prerequisite: WSTA01H & WSTA03H or (WSTA02H)
or permission of the instructor

WSTC140H3 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 maternal leave, sexual harassment, family benefits, divorce, and human rights policies.
Prerequisite: WSTA01H & (WSTA03H or (WSTA02H)) or permission of the instructor

WSTC151H3 Feminism, Education, and Literacy

Introduction to feminist education theories and practices focusing on global literacy development for women and girls.
Feminist debates and pedagogical practices in education from historical and cross-cultural contexts; empowerment and human rights goals for literacy; NGO and community teacher training initiatives; and international efforts to promote education reforms.
Limited enrolment: 40
Prerequisite: WSTA01H & (WSTA03H or (WSTA02H)) or permission of the instructor

WSTC165H3 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.
Limited enrolment: 40
Prerequisite: WSTA01H & (WSTA03H or (WSTA02H)) or 1.0 full credit in Sociology or permission of instructor.
Recommended (but not required): WSTB13H

WSTC166H3 Women and Environments

An examination of the impact the environment has on women's lives around the world. Current and historical perspectives.
Topics will include: the impact of environmental degradation on women's bodies; planning for safer places; global sustainable development; ecofeminism; the gender division of spaces.
Prerequisite: Two full credits in WST, or permission of the instructor.

WSTC200H3 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: WSTA01H & WSTA03H or (WSTA02H) or permission of the instructor

WSTC310H3 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: WSTA01H & WSTA03H or (WSTA02H) or permission of the instructor
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 research project in the community may be incorporated into the course.
Prerequisite: WSTA01H & [WSTA03H or (WSTA02H)] or permission of the instructor.

WSTD01H3 Senior Project in Women’s Studies
Students will choose a topic of special interest to them, and undertake an in-depth investigation of the topic under the supervision of a Women's and Gender Studies faculty member.
A substantial essay on the approved topic will be given to two evaluators - the course co-ordinator 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. Enrollment must be approved by the program supervisor and the course coordinator in the term prior to the start of the course.
Prerequisite: At least 12 FCE including WSTA01H & [WSTA03H or (WSTA02H)] & WSTD01H & 1.5 full credits taken from the courses listed in i3 and #7 in the Major Program.

WSTD03H Senior Seminar in Health, Sexualities and the Gendered Body/Constructions of Women and Gender
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.
Limited enrolment: 20
Prerequisite: WSTA01H & [WSTA03H or (WSTA02H)] & WSTB11H & two C-level courses selected from the course clusters as identified in the course title.

WSTD04H Senior Seminar in Gender, Equity and Human Rights/Gender, Local and Global Communities
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.
Limited enrolment: 20
Prerequisite: WSTA01H & [WSTA03H or (WSTA02H)] & WSTB11H & two C-level courses selected from the course clusters as identified in the course title.
Admissions

Re-enrolling University of Toronto Scarborough Students

Students previously registered at U of T Scarborough who wish to return after suspension or an absence of three or more consecutive sessions (at least 12 months) must submit an "Application To Re-Enroll" at the Registrar’s Office. This form may be printed from our website: www.uts.utoronto.ca/registrar. Students who studied elsewhere during their absence from U of T Scarborough should apply to re-enrol before the final deadline since we need 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 when the "course selection period" begins, students are strongly advised to apply to re-enrol by the dates listed below:

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

Late applications to re-enrol will be considered ONLY if received before classes begin in the session. For further information on re-enrolment, telephone 416-287-7001. See also the Overall Standing section of this Calendar.

Students who have a four-year degree conferred normally continue as Non-Degree Students. U of T Scarborough students who wish to start a second degree must apply, in writing, to the Assistant Registrar—Admissions by April 1. For details, contact Admissions and Student Recruitment at 416-287-7529.

Admissions

The following is a brief description of undergraduate admission policies and procedures. Full information may be obtained from:

- Admissions and Awards
- Admissions and Student Recruitment
- University of Toronto
- 315 Bloor Street West
- Toronto, Ontario, Canada M5S 1A3
- Telephone: 416-978-2190
- website: www.uts.utoronto.ca

Applicants interested in graduate studies should contact the School of Graduate Studies.
- Website: www.ogr.utoronto.ca
- Telephone: 416-978-6614

Application Procedures and Deadlines

Most of the applications for U of T Scarborough programs are submitted to the Ontario Universities Application Centre for initial processing. Students who are currently enrolled full-time in an Ontario secondary school submit a 101 application. Details are available at secondary school guidance offices. Other applicants seeking full-time degree studies, except for applicants from other divisions of U of T (Internal U of T transfers) will apply using a 105 application that is available on-line at the Ontario Universities Application Centre’s website at www.ouac.on.ca (telephone: 519-823-1940).

Internal U of T Transfer applications, Part-time Degree and Non-Degree on-line applications are available at the Admissions and Awards website: www.adm.utoronto.ca

Upon receipt of the application from OUAC, the University of Toronto’s Admissions and Awards office sends confirmation and refers the applicant to an on-line Applicant Instruction Guide. Applicants are strongly advised to submit the application well in advance of the deadlines listed below.

- In particular, applicants to the following programs should apply before March 1:
  - Co-operative Programs
  - Joint Programs with Centennial College, Management Programs. All of these programs require a supplementary application (to be completed online at the U of T Scarborough Admissions & Student Recruitment website).
  - Applicants to the Concurrent Teacher Education Programs should apply well in advance of the February 1 deadline (an Applicant Profile, to be filled on-line at the Program website, is required).
  - Note to Applicants to Joint Programs with Centennial College: Information about your application will be shared with the relevant Program Supervisor at Centennial College to evaluate your application.

2009 Summer Session Deadline

- March 1 for Part-time degree and Non-degree applications
- May 1 for Non-Degree Visiting Students applying from other North American universities on a Letter of Permission

2009/2010 Fall/Winter Session Deadlines:

Full-time degree study:

- February 1 for applications to the Concurrent Teacher Education Programs
- March 1 for 101 applications, for applicants who are currently enrolled full-time in an Ontario high school
- April 1 for 105D applications, for applicants who are residing in Canada for applicants who are Canadian Citizens/Permanent Residents who reside outside Canada, who are not currently enrolled full-time in an Ontario high school
- April 1 for Internal U of T degree applications, for applicants who have registered in other divisions of U of T
- April 1 for 105F applications, for applicants who reside outside Canada who are not currently attending an Ontario secondary school (or Ontario or abroad) in a daytime program of study
Other Applications:
- June 1 for Part-time Degree, Non-Degree or Visiting Student (Non-Degree) applying from other North American universities on a Letter of Permission.

Non-Degree Students in Management
For information and deadlines, see the Department of Management web site at: http://www.utm.utoronto.ca/mgmt

General Admission Requirements to the University of Toronto Scarborough for 2009-2010

Applicants from Ontario Secondary Schools Under 1999 OSSD Diploma (4 year) requirements
- Applicants must be eligible to receive the Ontario Secondary School Diploma (OSSD).
- Applicants must present at least six (6) Grade 12 University (U) courses or University/College (M) courses.
- One credit must be Grade 12 English ENG4U.
- Applicants must present credits to satisfy any prerequisites of specific courses or specific programs in which they intend to enrol.
- Applicants must satisfy English Facility Requirements.

Applicants from Ontario Secondary Schools under 1989 OS/IS Diploma (5 year) requirements
- Applicants must be eligible to receive the Ontario Secondary School Diploma (OSSD).
- Applicants must present at least six (6) Ontario Academic Courses (OACs).
- One credit must be OAC English U/ENG4U.
- Applicants must present credits to satisfy any prerequisites of specific courses or specific programs in which they intend to enrol.
- Applicants must satisfy English Facility Requirements.

English Facility Requirements
Applicants may request the English Facility Requirements brochure from Admissions and Awards or visit the website: www.adm.utoronto.ca/adm/adm_other_req/admin_english_facility.htm

Telephone: 416-978-2190

1. Proof of adequate English facility is required of all applicants except for those, (i) whose first language is English, or (ii) who have studied full-time for at least four years in an English language school system located in a country where the first language is English, or (iii) whose first language is French and have studied for at least four years in the Canadian school system.

2. Applicants who are required to present proof of English facility shall be exempt from the normal admission requirement of having to present ENG4U English (or equivalent course). Such applicants are, however, encouraged to include English in their preparation for university. If English 12 U or OAC English 1 is completed as an extra credit, applicants will not be penalized by having the result included in their admission average if the grade is low.

3. Acceptable Tests/Qualifications and Required Scores:
   - The Test of English as a Foreign Language (TOEFL). The minimum requirements are: Interest-Based Test - total score of (100) + 22 on Writing.
   - Paper-Based Test - total score of 600 and 5.0 on TWE.
   - Computer-Based Test - total score of 250 and 5.0 on the Essay.
   - Michigan English Language Assessment Battery. The minimum requirement is an overall score of 65 with no part score below 50.
   - International English Language Testing System (IELTS). The minimum requirement is an overall band of 6.5, with no band below 6.
   - Academic English Course completed at the University of Toronto, English Language School, School of Continuing Studies (http://learn.english.utoronto.ca). The minimum requirement is a grade of B at the 50 (Advanced) level.

See the website (www.adm.utoronto.ca/adm/adm_other_req/admin_english_facility.htm) for other acceptable tests and requirements.

Note: For an applicant who scores just below the minimum requirements who is otherwise well-qualified for admission, Admissions and Awards will automatically consider other academic evidence of English proficiency (for example, results in English courses).

Prerequisites
Students should choose Grade 12 University and/or University/College Preparation courses that will fulfill the prerequisites for university courses and programs they intend to take. Review U of T Scarborough brochures, the U of T Scarborough website or consult with Admissions and Student Recruitment staff.

Examples:
- Management and Computer Science programs require both MHF4U Advanced Functions and MCV4U Calculus & Vectors.
- Most programs in Biological Sciences require MHF4U Advanced Functions and SCH4U Chemistry.
Resulting from a revision of the Ontario high school mathematics curriculum, the mathematics requirements changed. Please refer to the Admissions and Student Recruitment website (www.utm.toronto.on.ca/admissions/admission.html) for a list of equivalent courses and acceptable combinations of math courses. At this site, there is also a link to the Ministry of Education website where details about the curriculum may be obtained.

**Admission By Equivalent Certificate**
The certificates listed below are considered acceptable for admission consideration. Applicants must present courses to meet specific course and program prerequisites. Review the prerequisite information given for Ontario applicants on our website and in our brochures to determine the equivalent prerequisites you need.

**Applicants from Other Canadian Provinces and Territories.**
Alberta, British Columbia, Manitoba, New Brunswick, Newfoundland and Labrador, North West Territories, Nova Scotia, Newfoundland, Prince Edward Island, Saskatchewan, Yukon - Grade 12
Quebec - 12 academic CEGEP courses (Transfer credit is granted to candidates who have completed more than the 12 academic required CEGEP courses.)

**Note:** Those who completed their high school studies in Canada prior to 1989 should contact Admissions and Awards before applying to check entrance requirements.

**Admission with Transfer Credit**
Students who have completed work at other universities or at other Faculties or Schools of this University may be considered for admission with advanced standing credit. Acceptance of transfer credits among Ontario universities shall be based on the recognition that, while learning experiences may differ in a variety of ways, their substance may be essentially equivalent in terms of their content and rigor. Therefore as possible, acceptance of transfer credit should allow for maximum recognition of previous learning experience in university-level courses.

Subject to degree, grade and program requirements, any course offered for credit by one university shall be accepted for credit by another university when there is virtual equivalency in course content.

**Note:** that students who are transferring to the University of Toronto Scarborough will be required to complete at least half of their degree credits and half of their program requirements as University of Toronto Scarborough students. (Students transferring from other divisions of the University of Toronto are exempt from this degree requirement. However, limits on transfer credit upon admission still apply.) Students must consult with the Program Supervisor before taking courses required for the program at another campus.

**Applicants from Ontario Colleges of Applied Arts and Technology (CAAT)**
1. Candidates who have completed a two-year CAAT diploma program with sufficient academic content (or two years of a three-year CAAT diploma program) are eligible to be considered for admission to the first year of a degree program. Up to two full credits will be considered as transfer credit (effective 1997; the policy change is not retroactive.)
2. Candidates who have completed a three-year CAAT diploma program are eligible to be considered for admission with up to five full credits as transfer credit.
3. Candidates who have completed a one-year CAAT diploma program (or one year of a two- or three-year CAAT diploma program) are normally not eligible for consideration for admission. They must qualify for consideration by completing Grade 12 U/M courses (or equivalent).

**Applicants from Centennial College who are applying for admission to a joint program at U of T Scarborough who have completed a corresponding program at Centennial College are asked to contact Admissions and Student Recruitment for further details.** Also, see the Joint Programs website: www.utm.toronto.on.ca/jpops.

**Applicants holding the International Baccalaureate Diploma (IB)**
Candidates who have completed the Diploma with good results will be considered for admission. Those seeking admission to programs that require mathematics must present Higher Level Mathematics, Standard Level Mathematics or Mathematics Methods with the Calculus option. Transfer credit is awarded for most Higher Level subjects completed with a grade of 5, 6 or 7.


**Applicants from the United States of America**
Candidates who have completed Grade 12 from an accredited high school with a high grade point average and good scores on the SAT Reasoning Test or ACT plus good results on three SAT Subject tests or AP exams (or combination thereof) will be considered. Transfer credit is awarded for several Advanced Placement tests with scores of 4 or 5.


**Applicants with other qualifications**
Candidates who wish to apply for admission on the basis of work completed in other countries or on the basis of other qualifications should check our websites or write to Admissions and Awards, outlining their academic qualifications and intended area of study.

Information on admission requirements for applicants with international credentials may be obtained from the Admissions and Awards website. Also, the International Undergraduate Admission Bulletin available from Admissions and Awards.
Mature Students
Applicants who do not hold the published admission requirements who are at least twenty-one years of age, Canadian citizens, permanent residents of Canada or Protected Persons (Conventional Refugees) and have been residents in Ontario for at least twelve months may be considered for admission as mature students. The applicants must complete, with high standing, (a) one of Woodsworth College’s Academic Bridging Program courses or (b) two Grade 12 U/M courses completed after the student is 21 years of age. One course must be English ENG4U. Further information on the Academic Bridging Program is available at www.wd.utoronto.ca or by contacting Woodsworth College (416-978-7487).
Students must receive permission from Admissions and Awards to qualify for consideration using these options. Note that students who wish to prepare for certain university programs such as management or science programs may have to do additional studies to ensure all the prerequisites are attained.

Notes:
(i) Status in Canada: An applicant who wishes to qualify as a Mature Student must be one of the following: a Canadian Citizen or Permanent Resident or officially recognized as a Protected Person (Conventional Refugees) by Citizenship and Immigration Canada, admitted to and remaining in Canada in (ii) Age: The applicant must be 21 years of age by October 1 of the Fall Session or by July 15 for the Summer Session.

Non-Degree Students
A Non-Degree Student is one who is taking courses at U of T Scarborough but who is not proceeding towards a University of Toronto Bachelor’s degree. Most Non-Degree students have completed degree studies and are taking further courses for their own interests or for professional preparation.

Visiting Student (Non-Degree) on a Letter of Permission
Students with valid Letters of Permission from other accredited North American universities may apply directly to U of T Scarborough to take courses for transfer credit at their own home university. Visiting Student status does NOT imply acceptance for Degree status or other Non-Degree student status. Call 416-287-7529 for applications or download the application from our website at www.utsc.utoronto.ca/admissions

Senior Citizens
Canadian citizens or permanent residents of Canada who are at least 65 years of age by the first day of term may apply for admission as part-time Non-Degree Students. Normal admission requirements are usually waived. Tuition fees will be charged. Call the Assistant Registrar - Admissions at 416-287-7529 for information.

How Decisions Are Made
The specific average or standing required for admission varies from year to year. Students are selected by taking into consideration a wide range of criteria including school marks, distribution of subjects taken, performance in subjects relevant to the academic program selected, and, for applicants to co-operative programs, teaching programs and joint programs, supplementary application information. While the University of Toronto recognizes that there may be valid reasons for a student to repeat a course, in general we urge students do as well as possible on their first attempt. In considering students for admission and scholarships, the University reserves the right to give preference to students whose marks are the result of a single attempt at each course.

Possession of minimum requirements does not guarantee acceptance. Because of space limitations, preference will be given to applicants with the best qualifications. Applications will be considered from candidates whose qualifications do not meet the normal requirements, but such candidates must offer written evidence of exceptional ability, or of extenuating circumstances. Such students may be admitted "on condition". Students on condition have special academic requirements that must be met and should refer to the “Overall Standing” section of this Calendar specifically the entry on “Determination of academic status for students admitted on condition”. Applicants who matriculated prior to the current year are advised to contact Admissions and Awards for information. The University of Toronto reserves the right to determine whether or not credentials of degree-granting institutions in Ontario meet the standards for admission to University of Toronto programs.

Awards
University of Toronto Scarborough seeks to attract, recognize and reward the academic achievements of students registered in an undergraduate degree program. We offer our students the following categories of scholarships and awards:

1. Admissions Awards: Available to new students entering University of Toronto Scarborough.
2. In-course Scholarships and Awards: Available to students continuing their studies at the University of Toronto Scarborough. In this category there are two types of awards:
   a) Automatically awarded
   b) Application or Nomination based

Awards that require an application are highlighted and usually have a specified deadline date. Up to date and accurate information on the deadline for a specific scholarship, prize or bursary can be found at one of the following locations: Financial Aid & Awards Office (Room AA142), the Awards bulletin board (located in the Meeting Place) and the U of T Scarborough Financial Aid & Awards website at www.atsc.utoronto.ca/final. The official award records are on file in the Financial Aid & Awards Office. Scholarship, Bursary/UTAPS Grant inquiries: 416-287-7001.
A general condition for holding an entrance or in-course award is that the student must register at the University of Toronto Scarborough in the following academic year with degree status. Students who have been awarded a scholarship, which is based on enrollment in a particular program of study, must continue in that program to receive the award. U of T Scarborough reserves the right to not award a scholarship if, in a particular year, the academic achievement of the candidate is not of high standard. For graduate awards, students who graduate at the fall convocation are considered for awards at the following spring convocation in competition with the spring graduates. Students who graduate with three-year degrees are not considered for in-course awards.

**Ontario Student Opportunity Trust Fund Awards (OSOTF)**
To qualify for consideration for awards listed below which are identified as OSOTF awards, students must qualify for consideration for the Ontario Student Assistance Program (OSAP). Eligible candidates must be Canadian citizens or permanent residents and satisfy the Ontario residency requirements as defined by OSAP.

**Admission Awards**

**Note:** The calendar is published in March. Check the Admissions and Student Recruitment website in September for updates to the scholarship program. www.utsa.utoronto.ca/admissions.

U of T Scarborough allocates entrance scholarships to students entering first year directly from secondary school. A limited number of entrance scholarships are available to international students. Successful applicants will be notified of awards received at the time they receive an offer of admission to the University. 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.

Entrance Scholarship applications can be found at www.utsa.utoronto.ca/admissions. For financial need-based scholarships, applicants must complete a University of Toronto Advance Planning for Students (UTAPS) application at www.adm.utoronto.ca/fs/UTAPS/default.htm to qualify. Applicants must be Canadian citizens or permanent residents of Canada.

**National Scholarship Program**
The University of Toronto National Book Award Program is intended to recognize and reward the very best Canadian secondary school students, regardless of which university those students choose to attend. These are students who demonstrate superior academic performance, original and creative thought, and exceptional achievement in a broad context. Canadian schools are invited to nominate one student to receive the Book Award.

Students selected as National Book Award winners have the opportunity to submit applications to the National Scholarship Program. In addition, students who identify themselves as meeting the scholarship criteria are invited to apply directly for the National Scholarship. On the basis of application criteria, about 30 students are selected as finalists.

The finalists are invited to be the guests of the University during the selection interviews held in the spring. The University expects to award approximately 12 National Scholarships annually.

The deadline for submission of Book Award nominations and National Scholarship applications is early October of the student’s final year of secondary school.

**University of Toronto Scholars Program**
This program recognizes outstanding University of Toronto students in any first degree course, both on admission and during their course of study. Approximately 120 outstanding admission applicants are selected as University of Toronto Scholars. These awards may be held in any program of study at the University, in conjunction with admission awards that the students may receive from their faculty/college.

Awards under the University of Toronto Scholars Program are not renewable. Outstanding students, however, will be eligible for consideration for University of Toronto (In-course) Scholarships at the end of the first, second and third year of their programs.

**Plumptre Admission Scholarship**
Awarded to the student entering first year whose achievement in secondary school is considered to be the most outstanding. The scholarship is awarded in memory of Professor A.F. Wyman Plumptre, a former Principal of U of T Scarborough.

**Frederick A. Urquhart Admission Scholarships**
Eight scholarships are awarded to students entering first year on the basis of exceptional academic achievement in secondary school. The scholarships are awarded in memory of Professor Emeritus F.A. Urquhart, a distinguished entomologist.

**Avie Bennett Scholarships**
Awarded on the basis of academic excellence and financial need to students in an Arts and Science program, studying Humanities and/or Social Science at the St. George Campus, University of Toronto at Scarborough and University of Toronto at Mississauga or students registered in the Faculty of Music. Candidates should present a well-rounded profile of high academic ability and excellence in the arts or athletics. Application required (see website for details). **Deadline: February 27**
University of Toronto Scarborough Merit Scholarship
Awarded to one or more students who are applying directly from secondary school, who have demonstrated excellent academic achievement in secondary school.

University of Toronto Scarborough Jiangsu Province Green Path Scholarships
Awarded to students from Jiangsu Province, People’s Republic of China who are enrolled in the U of T Scarborough Green Path Program who will be entering first year undergraduate degree studies at University of Toronto Scarborough. The top two students in the program will be selected based on their secondary school and Hua Kao exams.

University of Toronto Scarborough Admission Scholarships
Secondary school applicants with excellent standing are considered for merit-based scholarships. Some scholarships have a financial need component. To be considered for awards that have a financial need component, complete a UTAPS application. **Deadline: March 1**

University of Toronto Scarborough Alumni Admission Awards
Awarded to students applying directly from secondary school who have demonstrated significant contribution to community service work and who have high academic achievement. Application required (see website for details). **Deadline: March 1**

University of Toronto Scarborough Scholarship in Studio Art
Awarded to a student applying to Humanities who intends to take a program in studio art; awarded on the basis of an excellent portfolio that focuses on exploration of concepts and media. Application required. Send a covering letter with slides or portfolio and a letter of recommendation from an instructor or arts professional to Admissions and Student Recruitment (see website for details). **Deadline: March 1**

Canadian Federation of University Women (CFUW) Scarborough Entrance Scholarship
Awarded to a student graduating from a Scarborough area high school on the basis of academic achievement, outstanding leadership in his/her school or community and financial need (OSOTF*). Application required (see website for details). Students must also complete a UTAPS application. **Deadline: March 1**

Scarborough Frank Faubert Scholarships
Awarded to students entering a Scarborough high school on the basis of financial need. Eligible candidates are to be limited to graduates of high schools within the geographic limits of the Corporation of the City of Scarborough as it existed on December 31, 1997. (OSOTF*). Complete a UTAPS application. **Deadline: March 1**

Terry Litovitz Merit Award in Management
Awarded to a student entering the Bachelor of Business Administration (BBA) degree program directly from secondary school on the basis of excellent academic achievement and demonstrated leadership in his/her school or broader community. Demonstrated leadership will be defined as someone who has evidence of one or more of the following: extra-curricular involvement in his/her high school (preference will be given to those actively involved in their student council) and/or active service in their community. Application required (see website for details). **Deadline: March 1**

John Ball Alumnus Entrance Scholarship
Awarded to a student entering first year on the basis of academic excellence in the secondary school program.

Lo Family Scholarships
Awarded to students who are active leaders, are respected and considered to be well-rounded citizens in their school community and who have demonstrated financial need. Applicants must submit a covering letter to outline their community activity and demonstrated leadership skills to: Lo Family Scholarships, Admissions and Awards, 315 Bloor St. W., Toronto, ON, M5S 1A3. **Deadline: February 27**

Orrell Family Scholarship
Awarded to a student entering the first year in the International Development Studies Co-op program on the basis of academic merit and financial need (OSOTF*). Complete a UTAPS application. **Deadline: March 5**

Paul Thompson Entrance Scholarship in Life Sciences
Awarded to a student entering first year in a Life Sciences program on the basis of academic excellence in the secondary school program. The scholarship is awarded in honour of Professor Thompson, a former Principal of U of T Scarborough.

John H. Young Award in Life Sciences
Awarded to a student who is entering first year studies in Biological Sciences directly from secondary school who has high academic achievement (minimum 80% average) and has demonstrated a high level of extra-curricular involvement in the school or community. Application required (see website for details). Students must also complete a UTAPS application. **Deadline: March 1**

UTSC Faculty and Staff Award
Awarded to a student based on academic excellence and financial need. Complete a UTAPS application. **Deadline: March 1**
UTSC GRADitude Legacy Award
Awarded to a student based on outstanding community service and academic achievement. The student must demonstrate leadership qualities in his/her volunteer role. Application required (see website for details). Deadline March 1

In-course Scholarships & Awards
Note: The Calendar is published in March. At the time of printing, some award criteria may not be finalized. Check the Financial Aid & Awards website for updates to the scholarship program at www.utsn.utoronto.ca/financial

University of Toronto Scarborough recognizes outstanding students enrolled in undergraduate degree programs who will be continuing in undergraduate degree programs by awarding scholarships, prizes and bursaries to eligible students. Students are considered for in-course scholarships and prizes at the end of the session in which they complete their 5th, 10th and 15th full credit. Decisions for automatic in-course awards are made in the summer and notification letters are normally sent out in late July. In order to give more students an opportunity to be recognized for excellent academic achievement the policy of the University of Toronto Scarborough Awards Committee permits a student to hold only one major award.

Automatically awarded:
University of Toronto Scholars Program
Outstanding undergraduate degree students will be considered for University of Toronto Scholars Program at the end of the first, second and third year of their programs. At UTSC, there are approximately 19 scholarships at each level. These in-course awards are worth $1500 and are tenable with other in-course scholarships.

University of Toronto Scarborough In-Course Scholarships
Awarded to students who have achieved a grade point average of 3.70 or better in their most recent year of full-time study or equivalent amount of part-time study. Students are considered at the end of the session in which they complete their 5th, 10th, and 15th credit.

A. D. Allen Scholarship
Awarded to the outstanding student in each year at University of Toronto Scarborough, in any field of study. The scholarships are awarded in the memory of Dr. A. D. Allen, a former Principal of U of T Scarborough.

Vincent Bladen In-Course Scholarships
Two scholarships for each of first, second and third year are awarded on the basis of exceptional academic achievement. The scholarships are awarded in memory of Professor V. Bladen, a former member of the faculty in Economics.

University of Toronto Scarborough Honours List
University of Toronto Scarborough publishes annually an honours list, including the names of all degree students who have achieved a grade point average of 3.70 or better in their most recent year of full-time study or equivalent amount of part-time study. Students are considered for the honours list at the end of the session in which they complete their 5th, 10th, 15th and 20th credit. Other students may be nominated by the academic department.

Harvey Babish Award in Financial Accounting
Awarded to a student completing the third year of the Specialist Program in Management or Management and Economics with the highest grade (at least A-) in MGTO71H and MGTO80H.

Jane Bancroft Scholarship in French
Awarded to a student who is entering the third or fourth year in a major or specialist program in French on the basis of outstanding achievement in French studies. A minimum of 4.0 full credits must be completed.

William Beardsmore Memorial Prize in History
Awarded to the student completing third year who in the opinion of the faculty in History, has excelled in the study of History. Awarded in memory of William Beardsmore, a History graduate of UTSC.

Bladen Prize in Economics
Awarded on the basis of an essay submitted by a student specializing in Management or Economics on any subject covered by a B-, C- or D-level course in Economics.

Sandford Bovins Scholarship in Public Management
Awarded to the student in a specialist program in Management who has achieved the highest grade in the course MGTC42H3 (Public Management).

Myer Brody Prize in Entrepreneurship
Awarded to an undergraduate student enrolled in a Management program who has the highest grade in the course MGTC33H3 Entrepreneurship (minimum grade A-).
Norman F. Brown Memorial Award in Humanities
Awarded to a student enrolled in the second or third year of a program in the Department of Humanities on the basis of excellent academic achievement.

Canadian Society for Chemistry Silver Medal
Awarded to a student entering the fourth year of a specialist program in Chemistry who has the highest standing in the program in third year.

Canadian Society for Chemistry, Toronto Section Book Prize
Awarded to the most improved student entering the fourth year of a specialist program in Chemistry.

Yvonne and John Chis Award in Genetics
Awarded to a student enrolled in a Biological Sciences program who has the highest grade in BOYC15H3 Transmission Genetics.

Neil H. Dobbs Award
Awarded to a student on the basis of financial need. Academic merit will also be considered. (OSOTP*)

Keith and Amelia Ellis Award in Management and Economics
Awarded to a student entering third year in a degree program in the Department of Management on the basis of financial need. Preference will be given to a candidate who has shown a marked improvement in academic standing from year one to year two. (OSOTP*)

Ernst & Young Scholarships in Commerce
Awarded to students in the third and fourth year a specialist program in Management program, who have successfully completed accounting courses. Financial need is also considered. (OSOTP*)

Frank Faubert Scholarship in International Development Studies
Awarded to a student enrolled in the co-operative program in International Development Studies who is starting his/her work placement.

Scarborough Frank Faubert Scholarships
Awarded to students entering second, third or fourth year in a degree program offered by the Department of Management on the basis of financial need. Eligible candidates are to be limited to graduates of high schools within the geographic limits of the Corporation of the City of Scarborough as it existed on December 31, 1997. (OSOTP*)

Floosa Family Scholarship in Arts and Science
Awarded to a full-time student entering second year who is continuing in a Humanities, Biological Sciences, Physical Sciences, Psychology or Social Sciences program. Financial need must be considered and the recipient must be in good academic standing. (OSOTP*)

Tom Hull Scholarship in Computer Science
Awarded to undergraduate or graduate students in Computer Science. The award will be based on financial need and will also take academic merit into account. (OSOTP*)

Abram Krashinsky Prize in Music
Awarded for the best essay or original composition in a course in music offered at U of T Scarborough.

Abram Krashinsky In-Course Scholarship in Visual and Performing Arts
Awarded to a student enrolled in a program in the Visual and Performing Arts who (i) has completed at least 10 full credits and (ii) has achieved excellent standing in VPA courses.

Yurgen Krumna Award in Economics
Awarded to the top academic student entering the third or fourth year of the Specialist program in Economics, leading to a Bachelor of Business Administration degree.

Bob and Kam Lo Anniversary Scholarship
Awarded to a student who has completed 5.0 credits, with a minimum CGPA of 3.5 (B+). The recipient will be working towards his/her degree on a part-time basis.

Arthur Louden Scholarship(s)
Awarded to one or more students enrolled in the Concurrent Teacher Education program (CTEP) or the Early Teacher Project on the basis of academic achievement (minimum 3.3 GPA). The recipient(s) must be enrolled in a specialist program in the Department of Physical and Environmental Sciences.
MacDonald Bursary
Awarded to a full-time degree student registered in second, third or fourth year who achieved at least a achieved a GPA of at least 3.0 (a grade of B) in the previous year. Financial need must be considered.

Margeson Scholarship in English
Awarded to an outstanding student who has completed the second year of a major or specialist program in English.

Margaret H. McCoy Johnston Scholarship
Awarded to the student enrolled in a major or specialist program in a modern language who, on entering the third or fourth year, has the highest grade point average in courses taken to satisfy the program. (Minimum GPA 3.2).

Tom McFeast Prize in Anthropology
Awarded to the outstanding student entering the final year of a major or specialist program in Anthropology.

Esther Mitchell Prize in Chemistry
Awarded to a student entering the third year of a program in Chemistry, for achievement in the courses required for the program (a minimum of three full credits in Chemistry, including Analytical Chemistry, must be completed to be considered).

John S. Moir Prize in Canadian History
Awarded to the student with the highest standing in HIST40H1 Canadian History to 1885.

Katherine Nagel Philosophy Prize
Awarded to the student in a major or specialist program in Philosophy before the beginning of the third or fourth year of study whose grades and performance in Philosophy, in the opinion of the faculty in Philosophy, best demonstrated excellence in the subject.

Dr. Vivian Paskal Memorial Prize in Psychology
Awarded to a full-time student entering the fourth year of the specialist program in Psychology, on the basis of excellent academic achievement.

William D. Peck Award in Biology
Awarded to a full-time student entering the second year of any program in the Biological Sciences on the basis of excellent achievement in BGYA01H and BGYA02H Introductory Biology courses (minimum 3.3 GPA/B+). Emphasis will be placed on the laboratory component of the course and overall contribution to the class.

John Pounder Prize in Astronomy
Awarded to a full-time student entering the third year of a Physical Sciences program on the basis of excellent achievement in ASTA01H, ASTA02H and one B- or C-level course in Astronomy.

Rohm & Haas Canada Scholarship
Awarded to one or more students entering either (i) the third year of a major program in Chemistry or (ii) the third or fourth year of a specialist program in Chemistry on the basis of financial need. Academic merits will also be considered. (OSOTF*)

Ken Svecick Bursary in Computer Science
Awarded to any student(s) in a Specialist or Major program in Computer Science. Financial need must be considered; academic merit will also be considered. (OSOTF*)

U of T Scarborough Social Sciences In-Course Scholarship
Awarded to a student entering the second, third or fourth year of a program offered by the Department of Social Sciences on the basis of excellent academic achievement.

Ting Sum Tang Memorial Scholarship in Arts Management Co-op
Awarded to a student entering the fourth year of the Arts Management Co-op specialist program on the basis of excellent academic achievement (minimum GPA 3.3/B+). The award will be given on the basis of achievement in a recent work placement. (Donated by the Federation of Chinese Canadian Professionals Ontario Education Foundation.)

Ting Sum Tang Memorial Scholarship in Cell & Molecular Biology
Awarded to a student entering the fourth year of a Cell and Molecular Biology specialist program on the basis of excellent academic achievement (minimum GPA 3.3/B+). The award will be given to a student who has shown a commitment/contribution to their area of study through collaboration in class. (Donated by the Federation of Chinese Canadian Professionals Ontario Education Foundation.)

Ali Tayyeb Scholarship
Awarded to a student who demonstrates excellent scholarship in Political Geography or studies of developing nations.
Kartheinz Thell Prize in English
Awards to the student who, in the year he/she completes the ENGB03H, ENGB04H, ENGB05H sequence of courses, has the highest average in those three courses.

Stanley Kosta Todorow Scholarships
Awarded on the basis of academic excellence to one or more students registered in the Department of Biological Sciences, Psychology or Physical and Environmental Sciences that leads to a Bachelor of Science degree.

Trentwich Computer Science Awards
To be awarded on the basis of financial need to three students one entering each of second, third and fourth year of a computer science program. Academic merit will also be considered. (OSOT^*)

Andrew Tsang Memorial Scholarship in Sino-Canadian Studies
Awarded to the undergraduate, whose academic performance and extra-curricular activities in the area of Chinese studies and Sino-Canadian studies best exhibits commitment to Chinese-Canadian cultural and economic ties.

University of Toronto Scarborough Prize in Biology
Awarded to a full-time student entering the fourth year of a specialist program in Biological Sciences on the basis of excellent academic achievement. Emphasis will be placed on achievement in the third year of study.

University of Toronto Women’s Association Lois Dove Memorial Scholarship
Awarded to a student in the third year of a four-year undergraduate degree program on the basis of excellent academic achievement.

Ho Chak Wan Memorial Scholarship in Management
Awarded to a student entering second, third or fourth year in a Management program. Financial need must be considered in addition to academic merit. (OSOT^*)

Application/Nomination Required:
Applications are available in the Financial Aid & Awards Office (Room AA142) and on-line at www.utsc.utoronto.ca/Email

APUS Award for the University of Toronto’s Sesquicentennial
Part-time undergraduate students who (a) have completed at least five full credits with a B average (GPA of 3.0) in the last five full credits, and (b) have demonstrated outstanding achievement or commitment in activities distinct from their University studies or have overcome adverse circumstances in order to attend University, may be considered. Applications available on-line at www.apus.utoronto.ca

APUS Scholaristic Awards
Part-time undergraduate students who (a) have completed at least ten full credits, of which four are in an area of specialization, and, (b) have obtained a B average (GPA of 3.0) in the most recent five full credits, may be considered. Applications available on-line at www.apus.utoronto.ca

Arts Management Scholarship
Awarded to one or more student enrolled in the Arts Management Co-op program who are eligible for placement and are in good standing. Financial need must be considered. (OSOT^*)

Biology Students’ Association (at UTSC) Award
Awarded to a full-time student entering second, third or fourth year of a program in the Department of Biological Sciences (must have completed 5 credits). Candidates must demonstrate financial need, have a minimum cumulative grade point average of at least 3.3 (B+) and demonstrate involvement in the scientific community. Deadline May 30

Samuel Beatty In-Course Scholarships
Awarded to students enrolled in second, third or fourth year, in a Specialist program offered by the departments of Computer & Mathematical Sciences and Physical & Environmental Sciences on the basis of academic performance and financial need.

Ann Boddington Prize in Music Performance
Awarded to a student entering the third or fourth year of any program, who has made a contribution to music performance at U of T Scarborough. The recipient should be an active/participating member in the campus and/or local community who can demonstrate strong citizenship through having enriched the lives of others in these communities. The recipient must be in good academic standing, and may not win this award more than once. Deadline May 30

Lalitha Lee Brownes Scholarship in Drama
Awarded to a student displaying outstanding ability in dramatic arts who is either continuing in a Drama Program at U of T Scarborough or is graduating and has registered in an advanced training program in the dramatic arts. Deadline: May 1
Canadian Federation of University Women (CFUW) Scarborough Scholarships
Awarded to two students entering the third or fourth year of a major or minor program in Women’s Studies who have demonstrated outstanding leadership qualities in their school or community and have financial need. (OSOT*) Deadline: May 30

Cultural Pluralism and the Arts Undergraduate Essay Prize
Awarded on the basis of an essay (2,500 to 5,000 words in length) on a topic in the field of Cultural Pluralism and the Arts. Essays are normally those submitted for course work. Nominations are usually made by instructors to the Chair of the Department of Humanities by April 28, and should include a copy of the essay and a cover page showing full name of the student, student number and name of the course for which and professor to whom the essay was originally submitted.

Jon S. Dellandrea Award for International Students
Awarded to an international student entering the final year of an undergraduate program on the basis of exceptional academic achievement and future leadership. Students should submit an application for this prestigious scholarship from the University of Toronto Alumni Association. The deadline is normally in December/January.

Diefenbaker Essay Prize
Awarded on the basis of an essay (2,500 to 5,000 words in length) on a topic focusing on Canadian politics or a similar field of Canadian Studies. The essay should have Canada as its primary focus. Essays are normally those submitted for course work. Nominations are usually made by instructors to the Chair of the Department of Social Sciences by April 28, and should include a copy of the essay and a cover page showing full name of the student, student number and name of the course for which and professor to whom the essay was originally submitted.

Jeffrey and Watarucho Feldberg Scholarship in Social Sciences
Awarded to a student entering third or fourth year who (i) is enrolled in a program sponsored by the Department of Social Sciences with preference given to a student enrolled in a Political Science program and who (ii) is involved in extracurricular/community activities and (iii) has shown outstanding improvement in his/her academic standing while studying under challenging personal circumstances. Deadline: May 30

Filosa Family International Development Studies Placement Scholarship
Awarded to a student enrolled in the co-operative program in International Development Studies who is starting his or her work placement. Financial need must be considered.

Anita Fitzgerald Prize in Women’s Studies
Awarded for the best essay in the area of Women’s Studies. Instructors nominate essays.

Jean E. Foley Award
Awarded to a student, alumni/a, administrative staff member or faculty member who has made a significant contribution toward improving the quality of academic or extra-curricular student life on campus. Sponsored by the University of Toronto Alumni Association. Nomination required in December.

Frontier College at University of Toronto Scarborough Literacy Award
Awarded to a student entering the second, third or fourth year who (i) is in good academic standing and (ii) has demonstrated outstanding leadership qualities through extracurricular/community volunteer involvement promoting literacy. Special consideration will be given to students who have volunteered with Frontier College at University of Toronto Scarborough and/or their community partners. Candidates who were executive members of the Frontier College at University of Toronto Scarborough in the previous year are ineligible to apply. Deadline: May 30

C. K. Govind Excellence Award
Awarded to a full-time student entering fourth year of study in an Integrative Biology or Neuroscience program. In addition to academic excellence (minimum cumulative GPA 3.5/B+), candidates must demonstrate a commitment to enhancing the lives of other people through volunteer work within the community. Open to Canadian citizens and permanent residents. Deadline: May 30

Gallant Y.T. Ho Scholarship in International Development Studies
Awarded to a student entering second, third or fourth year in the co-operative program in International Development Studies. Financial need must be considered in addition to academic merit. (OSOT*)

International Development Studies Scholarship
Awarded to students enrolled in the co-operative program in International Development Studies who are starting their work placement. Financial need must be considered. (OSOT*)

Morris Krever History Prize
Awarded to a student entering the third year of a major or specialist program in History on the basis of academic performance (at least B+ standing) and financial need. Emphasis is placed on academic performance. Deadline: September 30
Lawrence B. Leverington Mentor Award
Awarded to a student entering the second, third or fourth year for outstanding musical ability in one of the following three areas: direction, composition or performance. The award recipient must be in good academic standing and must demonstrate financial need. (OSOTF) Nomination required. Deadline: September 30

Gavin Livesey Memorial Bursary
Awarded to a student enrolled in the co-operative program in International Development Studies returning from work placement to complete his fifth and final year and is given on the basis of financial need. Where two or more students qualify on this basis, the students’ contribution to the program and to U of T Scarborough will also be considered. (OSOTF) Deadline: September 30

McClelland and Stewart Essay Prize in Canadian Studies
Awarded on the basis of an essay (2,500 to 5,000 words in length) on a topic focusing on Canadian art, drama, music or literature. Essays are normally those submitted for course work and nominated by instructors. However, students may also submit a copy of their essay directly to the Chair of the Department of Humanities by April 28. Include a cover page showing full name, student number and the name of the course for which and professor to whom the essay was originally submitted.

Peter Moses Prize in French
Awarded for the best undergraduate essay in French drama. Instructors nominate essays.

Jovilla Nagy Scholarships
Part-time students who have a GPA of at least 3.3 in the most recent five full credits who have completed the majority of their courses on a part-time basis may be considered. Sponsored by APUS. Applications available online at www.apus.utoronto.ca

Nortel Institute Undergraduate Scholarship(s)
The scholarship is open to students in second or third year in the Faculty of Applied Science and Engineering, the Faculty of Arts and Science and U of T Scarborough on the basis of financial need, academic merit and an essay. Deadline: November 1

Oxford University Press English Essay Prize
Awarded for the best essay written for an English course, in the past academic year. Instructors nominate essays.

Prudential Insurance Company Ability Award
Awarded to a full-time student entering second, third or fourth year in a program in the Department of Management who has demonstrated outstanding leadership qualities in his/her school or community: (i) is a Canadian Citizen or Permanent Resident; (ii) has a good academic record (minimum B average/3.0 GPA); and (iii) demonstrates financial need. (OSOTF) Deadline: June 27

Prudential Insurance Company Management and Economics Award
Awarded to a full-time student entering second, third or fourth year in a program in the Department of Management who has demonstrated outstanding leadership qualities in his/her school or community: (i) is a Canadian Citizen or Permanent Resident; (ii) has a good academic record (minimum B average/3.0 GPA); and (iii) demonstrates financial need. (OSOTF) Deadline: June 27

Prudential Insurance Company Scarborough Spirit Award
Awarded to a full-time undergraduate student entering second, third or fourth year who has demonstrated outstanding leadership qualities in his/her school or community: (i) is a Canadian Citizen or Permanent Resident; (ii) has been a Scarborough resident for at least 5 years; (iii) is a graduate of a secondary school in Scarborough; (iv) has a good academic record (minimum B average/3.0 GPA); and (v) demonstrates financial need. (OSOTF) Deadline: June 27

Brian David Radford Memorial Scholarship in Management
Awarded to one or more students entering the third or fourth year of a Management program whose academic and athletic achievement, combined, best exhibit dedication to excellence. (minimum B+ average/3.3 GPA). Deadline: September 30

Residence Life Scholarship
Awarded to one or more full-time undergraduate students entering second, third or fourth year, who are (i) returning to residence for the following year, (ii) have demonstrated a strong involvement in his/her residence community, (iii) have a good academic record (minimum B average/3.0 GPA), (iv) have completed at least 3.0 credits in each year they have been registered and (v) demonstrate financial need. Deadline: May 30

Rouge Watershed Scholarship
Awarded to a student enrolled in an Environmental Science, Ecology or Geography program on the basis of excellent academic achievement, strong interest in environmental issues and active participation in environmental projects within the university or community. Financial need must be considered. (OSOTF) Deadline: April 28

Scarborough Campus Students’ Union Prizes
Awarded to a student in good academic standing entering his/her second, third or fourth year who has made an outstanding contribution to the academic, social or cultural life of UTSC. Application or nomination required. Deadline: May 30
312 Awards

Scarbrough-York Region Chinese Business Association Scholarship
Awarded to students enrolled in the co-operative program in International Development Studies who are starting their work placement. Financial need must be considered. (OSOTF*)

SKF Canada Limited Scholarship
Awarded to a student enrolled in the co-operative program in International Development Studies who is starting his/her work placement. Financial need must be considered. (OSOTF*)

Wee Yee Sun Scholarship
Awarded to a student enrolled in the co-operative program in International Development Studies who is starting his/her work placement. Financial need must be considered. (OSOTF*)

University of Toronto Scarborough Prize in Creative Writing
Awarded on the basis of excellence in creative writing in poetry or short fiction (1000 word maximum for poetry submission; 3000 word maximum for short fiction). Submissions will be made to the Co-ordinator of the Writing Centre and must include a cover page showing full name of the student, student number, contact information, and the name of the course for which the piece was originally submitted (if the piece was used in course work). Deadline: April 1

University of Toronto Scarborough Women's Centre In-Course Scholarships
Two awards will be given to students entering the second, third or fourth year who i) are in good academic standing and ii) have demonstrated outstanding leadership qualities through extracurricular/community involvement. Special consideration will be given to students who can demonstrate an active commitment to supporting women's groups and women's issues. These awards are open to all students (all genders and both full and part-time students).

van den Thilliet Family Scholarship in Management
Awarded to a student entering the second, third or fourth year of the co-op program in Management, on the basis of excellent academic achievement, demonstrated leadership experience, and financial need. To be eligible for the scholarship, applicants must have been born outside of Canada, and be either a permanent resident or citizen of Canada.

Branko Vojnovic U of T Scarborough AccessAbility Award
Awarded to a student entering second, third or fourth year who is registered with AccessAbility Services and/or has special educational needs due to a disability/challenge as defined under the human rights code, is in good academic standing and displays a drive for learning. Preference is given to students enrolled in Management programs. Nomination required. Deadline: May 30

Financial Need Based Bursaries/Grants and Financial Assistance Programs

University of Toronto Advance Planning for Students (UTAPS)
Students who are concerned about financing their university studies can obtain early information about government and other financial assistance by completing a UTAPS application. These applications are available on-line and should be completed by all Canadian citizens and permanent residents who have applied for admission. Students who have applied for the Ontario Student Assistance Program (OSAP) and have calculated unmet need above their government-funding maximum will be automatically assessed for UTAPS grants assistance. Complete details on UTAPS are available at http://www.adm.utoronto.ca/Students/UTAPS/default.htm

Government Financial Aid
The Ontario Student Assistance Program (OSAP) is available to Ontario residents who are Canadian citizens, permanent residents, or protected persons to assist with educational and living expenses. OSAP loans are interest-free and are non-repayable while the student remains enrolled in full-time studies. Information concerning the eligibility and assessment criteria may be obtained from the OSAP website: http://osap.gov.on.ca or the Financial Aid & Registrar’s Office, (416) 287-7000. OSAP application forms are available on-line at the OSAP website. It is recommended that returning students apply for OSAP assistance the current Fall/Winter Session by May 31, and new students by June 30. Check with staff regarding Summer deadlines. Students from other Canadian provinces should apply through their provincial financial aid program. The Financial Aid & Registrar’s Office can provide addresses, and, in many cases, application forms.

University of Toronto Undergraduate Bursaries/Grants
University of Toronto Undergraduate Bursaries (or grants) are intended to assist full time students who have explored all other avenues of financial assistance (e.g. family support, OSAP, bank loans, etc) and still have unmet need. Applications may be obtained through the office (visit the website of the Office of the Registrar at http://www.utoronto.ca/registrar. Review application for specific seasonal deadlines.

University of Toronto Work-Study Program
This program is funded by the University and the Ministry of Training, Colleges and Universities, and provides on-campus, part-time employment to students with financial need. Information and applications are available from the Academic Advising and Career Centre AC313.
N'Sheeamath Child Care Bursary
Awarded to one or more students who have/​will have a child/​children at N'Sheeamath child care facility on the basis of financial need. Bursary must be applied to fees at N'Sheeamath. Application required. Deadline: July 30

Scarborough Campus Students' Union Dollar for Daycare Grants
Awarded to full-time or part-time undergraduate students on the basis of financial need related to daycare expenses. Deadline: October/November. Applications are available in the Scarborough Campus Students' Union (SCSU) Office SL108.

Bursary for Students with Disabilities
Non-repayable assistance is available from the federal and provincial governments for OSAP recipients who have special educational expenses as a result of a disability. Information is available in Accessibility Services S302.

University of Toronto Women's Association Bursary
Awarded on the basis of financial need. Submit a bursary application with a covering letter to Admissions and Awards, 315 Bloor Street West, Toronto, ON, M5S 1A3 by September 30. (G0037*)

Graduation Awards

Automatically awarded:
- Graduation With High Distinction and With Distinction
  University of Toronto Scarborough students who have completed at least ten full-credits while registered at U of T Scarborough at the University of Toronto's Faculty of Arts and Science or at the U of T Mississauga will graduate with high distinction if their cumulative grade point average is 3.50 or better and will graduate with distinction if their cumulative grade point average is between 3.20 and 3.49. Other students with a cumulative grade point average of 3.20 or better will be considered on an individual basis.

University of Toronto Scarborough Honours List
University of Toronto Scarborough publishes annually an honours list, including the names of all degree students who have achieved a grade point average of 3.50 or better in their most recent year of full-time study or equivalent amount of part-time study. Students are considered for the honours list at the end of the session in which they complete their 5th, 10th, 15th and 20th credit.

Departmental Graduation Prizes
Awarded to the outstanding student graduating in each of these areas of scholarship: Biological Sciences; Computer & Mathematical Sciences; Humanities; Management; Physical & Environmental Sciences; Psychology; and, Social Sciences.

Albert Barry Graduation Prize in International Development Studies
Awarded to the outstanding student graduating from the specialist (co-operative) program in International Development Studies.

CGA Ontario Award for Excellence
Awarded to an outstanding graduating student completing a specialist program in Management (B.B.A) who has displayed excellent achievement in accounting, with an average of at least a B+ in MGTOB3H, MGTC03H, MGTC07H and MGTC08H.

Gordon Cressy Student Leadership Award
To qualify for consideration, students must be in their final year, be in good academic standing and must have made a substantial contribution to their college, faculty, or the University as a whole. The award, established by the University of Toronto Alumni Association, requires a nomination by University of Toronto Scarborough. The nomination deadline is normally in January.

W.M. Dick Graduation Prize in History
Awarded to the outstanding student graduating in History, in a major or specialist program.

Forin Prize in Psychology
Awarded to the outstanding member of the graduating class who has completed the specialist program in Psychology.

Graduation Prize in Political Science
Awarded to the outstanding student graduating in a major or specialist program in Political Science.

Graduation Prize in Studio Art
Awarded to a student graduating in a studio art program who has demonstrated outstanding achievement in the studio courses.

Robert James Prize in Sociology
Awarded to the outstanding student graduating in Sociology in a major or specialist program.

The Mancer Graduation Prize in Public Policy
Awarded to the outstanding student in Public Policy, in a major or specialist program.
Orpheus Prize in Humanities
Awarded to an outstanding member of the graduating class who has completed either the specialist program in Arts and Culture, the major program in Art History, the major program in Drama, or the major program in Music and Culture.

Bob Shirley Prize in Anthropology
Awarded to the outstanding student graduating in Anthropology, in a major or specialist program.

Society of Chemical Industry Student of Merit Award
Awarded to a member of the graduating class who has completed a specialist program in Chemistry and achieved the highest standing in the final year (minimum GPA of 3.0/75%, has completed the degree within the normal number of years).

All Tayeto Prize in Geography
Awarded to the outstanding student graduating in Geography in a major or specialist program.

Application/Nomination Required:
John H. Moss Scholarship
Exceptional all-round students graduating in the spring who intend to enter a graduate or second undergraduate degree program should request an application for this prestigious scholarship from the University of Toronto Alumni Association in the fall. The deadline is normally in early December.

UTSC Letter Award
The award recognizes graduating students for significant contributions to improving the quality of student life at U of T Scarborough. More information may be obtained at the Office of Student Affairs or at the following website: http://www.uts.utc.utoronto.ca/studentlife/awards. Nomination required.

Academic Regulations

Student responsibility
Students are responsible for making themselves familiar with the information in this Calendar, particularly with this section, as well as instructions published periodically by the Registrar’s Office. Students whose registration contravenes the regulations may be withdrawn from courses, regardless of when the contravention comes to light. Members of the Registrar’s Office and the Academic Advising & Career Centre will assist students in interpreting the regulations and explaining their application in particular cases. Where appropriate, they will help those who encounter special difficulties to request special consideration.

Calendar changes
The information published in this calendar outlines the rules, regulations, curricula and Programs for the University of Toronto Scarborough. The publication of information in this Calendar does not bind the University to the provision of courses, Programs or facilities as listed herein.

The University of Toronto Scarborough reserves the right to change without notice any information contained in this Calendar, including any rule or regulation.

The online Calendar at www.uts.utc.utoronto.ca/registrar/calendar/calendar/ is kept up-to-date with changes made after publication.

Enrolment limits
The University of Toronto Scarborough reserves the right to limit the number of registrants in any Program or course where the number of qualified students exceeds the teaching or other resources available.

Student Cards (Tcards)
All students are required to have a student card in order to write tests and exams, request transactions at the Registrar’s Office, obtain a UTOBiD account, use the Library, Computer Centre and Athletic facilities. New students who do not have a student card should obtain one from the Registrar’s Office. Cards are provided free of charge to all new students. Replacement cards are issued in the Library Tcard Office (see http://content.library.utoronto.ca/usc for more information). A fee is charged to replace cards.

Students in debt to the University
University of Toronto Scarborough imposes the following academic sanctions on students in debt to the University:
- transcripts are not issued
- registration of continuing students is cancelled
- registration is refused to re-enrolling students (i.e. returning after 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
Student Web Service

University of Toronto student records are maintained by a student-friendly web-based system called ROSI. These records are shared with Degree Navigator, a web-based academic audit and advising system.

ROSI (www.rosi.utoronto.ca)

Students use ROSI to access a variety of online enrolment services, such as:
- Course and Subject POS enrolment
- Viewing grades, GPAs and academic status
- Requesting transcripts
- Viewing their financial account
- Updating personal information
- Listing their ROSI transactions

Login to ROSI to see a complete list of services available from ROSI’s main menu.

Access to ROSI is through student number and a six-digit personal identification number (PIN). All PINs are set initially to year, month and day of birth (e.g. 900323 = March 23, 1990) and must be changed to one of the student’s own choice before access to ROSI is granted. (Students accessing ROSI for the first time will be prompted to change PIN. Students should set their PIN reactivation feature – see below.) For security there is a limit of three on the number of attempts that can be made to enter PIN. Students who exceed the limit will have their access to ROSI suspended. Students whose access has been suspended or who have forgotten their PIN can reactivate their PIN themselves. Students who have not set up PIN reactivation in advance should contact the Registrar’s Office immediately. Photo identification is required in order to restore access.

Student System Access Fee: Incidental fees include a Student System Access fee.

ROSI: Further information on ROSI is included in the registration material.

Degree Navigator (www.rosi.utoronto.ca)

Degree Navigator is a web-based academic audit and advising system which is accessed through the ROSI website using student number and ROSI PIN. Students can use it to:
- Check their progress towards their degree and program completion
- Do What If? assessments
- Check different sets of program requirements

All student information (e.g. courses, program enrolments) in Degree Navigator comes from ROSI and is refreshed once a day. Only U of T Scarborough and Faculty of Arts and Science records are currently available.

There may be instances where some students have concerns about their academic audit. Should this happen, we encourage you to use the “CONTACT US” option in Degree Navigator. The University welcomes any comments or questions.

U of T Scarborough Registrar’s Office Home Page (www.uts.cc.utoronto.ca/registrar)

Here you will find important announcements, registration procedures, important dates and deadlines, the course timetable for each semester as well as future course offerings, final exam schedule, Subject POS information, fee payment instructions, access to eLetters, petition resources, and graduation information. From this site you can ask questions 24/7, using AskUs at www.uts.cc.utoronto.ca/askus. Visit the Registrar’s Office Homepage for this information and much more.

Course selection

In selecting their courses, students must adhere to the following regulations.

1. Prerequisites and corequisites for each course, as stated in the course description, must be met, unless waived by the instructor. The Registrar’s Office does NOT require notification of a prerequisite waiver. However, when the course being waived is listed as a program requirement, students should discuss the matter in advance with their program supervisor.

2. Students may not register for credit in a course if they have already passed another course shown in the course description as an exclusion to that course.

   Note: The Faculty of Arts & Science and the U of T Mississauga Calendars do not usually list U of T Scarborough courses as exclusions. Students taking such courses must check the U of T Scarborough Calendar for possible exclusions. Students who are in any doubt about whether or not an exclusion exists or whether or not a course can be used to meet a prerequisite of another course or can be applied to a program requirement should consult their program supervisor.

3. Students may not re-register for credit in a course if they have already passed that course. Students 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 grade point average.
4. Students may not register for credit in a course that is a specific prerequisite for a course they have already passed. When this occurs, the course is counted as "extra" (see "Extra (EXT) courses" in the "Standing in a Course" section of this Calendar). This rule does not apply in the case of non-specific prerequisites (such as "one 1B-level credit in History") or in the case where one of two or more courses that are not exclusions of each other may serve as prerequisite.

5. Where students may not register in a course for credit, they may register in it as an extra course. In such cases, the course is shown on the student's record but the grade is not included in the student's grade point average nor does the course count towards the degree. However, if appropriate, it may be used to meet program requirements that call specifically for it.

6. Students may normally select as many courses as they wish in each session. Students should, however, note the following:
   - Full-time students are those students who register in at least 1.5 full credits in any session.
   - The usual load maximum for a full-time student in any session is 2.5 full credits.
   - Students who are on probation should read about course load restrictions and requirements in the "Overall standing" section of this Calendar.

7. Students who wish to register in courses in the Faculty of Arts and Science or at the University of Toronto at Mississauga should refer to the "Courses on other campuses" section of this Calendar. There are limits to the number of courses that may be taken on other campuses.

8. Full-time students are those students who register in at least 1.5 full credits in a session.

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

10. 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:
   - must do so only until the deadlines for adding and dropping courses, stated in the Sessional Dates section of this Calendar;
   - must notify the Registrar's Office of any change through ROSSi.

11. 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.

Registration

Students are responsible for the accuracy of their own registration. When selecting, adding and dropping courses in ROSSi, they should always list their courses upon completing the transaction. Registration consists of two basic steps:

1. Course selection, and
2. Fees payment (or an arrangement of a fee deferment).

Both must be completed by the appropriate deadlines in order to be considered a "registered" student and to retain a place in any course selected. (For deadlines and further information, see the Registration Guide or the Registrar's Office website at http://www.arts.utoronto.ca/register.)

Note: Degree students who have completed 4.0 or more full credits must be in an appropriate combination of Subject POSAs before they may select courses. (This includes new students with transfer credits.)

Course selection

Courses may be selected through ROSSi. (For regulations on course selection, see above.)

Fees payment

All fees are posted to the student's financial account. Students may view their financial account on ROSSi. Fee payment (or deferral of fees) must be made by the relevant deadline. Details and information on the fees process is included in the Registration Guide and at www.arts.utoronto.ca/register. Students will receive a registration invoice detailing fees payable for their program of study.

For further information go to www.arts.utoronto.ca or contact Student Accounts, University of Toronto, 215 Huron St, 2nd Floor, Toronto, Ontario, M5S 1A2; telephone: 416-978-2142; fax: 416-978-2610 at 416-978-5572; email: info.studentaccounts@utoronto.ca

Program registration

All degree students with at least 4.0 credits are required to register on ROSSi in their Specialist, Major or Minor Programs. Students may register only in Programs (Subject POSAs) offered by University of Toronto Scarborough. ROSSi Subject POSA codes can be found at: www.arts.utoronto.ca/subjectpos. (For regulations governing Programs, see the Programs of Study section of this Calendar.)

Summer Session

Students who registered at U of T Scarborough in the 2007 Summer, the 2007 Fall or the 2008 Winter Sessions and who are not on suspension are automatically eligible to register and may pick up their registration packages in late March at the Registrar's Office.

Other students who want to register should contact the Registrar's Office or visit the Registrar's Office webpage for information at www.arts.utoronto.ca/register (see "Re-enrolling" in the Admissions section of this Calendar).

Fall & Winter Sessions

Students who registered at U of T Scarborough in the 2007 Fall, the 2008 Winter or the 2008 Summer Session and who are not on suspension are automatically eligible to register and may pick up their registration packages in late March at the Registrar's Office.

Other students who want to register should contact the Registrar's Office or visit the Registrar's Office webpage for information at www.arts.utoronto.ca/register (see "Re-enrolling" in the Admissions section of this Calendar).
Year of Study
The following is used to define the year of study of degree students:
1st year – has fewer than 4 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
5th year – (CTEP students only) – has 19.0 or more full credits.

Course changes
Note: For ROSI hours on deadline dates, go to http://www.rosi.utoronto.ca/hours.html
Students may add courses or drop courses without academic penalty through ROSI up to the dates stated in the Sessional Dates section of this Calendar. The deadlines for adding or dropping courses are strictly applied.
Students who make changes through ROSI should end their transaction by listing their courses to ensure that the change has been processed properly. They will not receive written confirmation of the change but it will be recorded in the detailed transaction log kept by the University which can be accessed through ROSI.
At the time students add a course to their record they are accepting responsibility for fees payment for it. Students who drop courses by the appropriate deadline may be entitled to a fees adjustment. (See the fees refund schedule and information published each session by Student Accounts at http://www.fees.utoronto.ca). Note: Exceptions to the university’s fees refund schedule are made only in the case of error on the university’s part.

Adding a course
Some courses have a restricted admission and may require approval before students are allowed to enrol in them. Restricted courses and the approval required are listed in the timetable at www.tsc.utoronto.ca/timetable.

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 appropriate approval. Approval normally comes from the instructor of the new meeting section or from the course coordinator. Changes must be recorded at the Registrar's Office through ROSI (until the last day to add the course) and on a section change request form thereafter. Note: For some course sections, changes are not permitted on ROSI – these are listed in the timetable at www.tsc.utoronto.ca/timetable.

Dropping a course
There are two academic deadlines for dropping courses. (See the “Sessional Dates” section of this Calendar.)

- If students withdraw from a course by the earlier deadline, no record of registration is shown on the student’s transcript.
- If students withdraw from a course by the later deadline, the course remains on the student’s record with a grade of W/D indicating late withdrawal. Students are permitted to withdraw late from a maximum of 3.0 credits during their studies within the University of Toronto Scarborough, the Faculty of Arts and Science or the University of Toronto Mississauga.

Withdrawal from the session
Students who drop all their current courses and do not intend to enrol in any other course in that session (Summer, Fall or Winter) must cancel their registration through ROSI. Note: Refunds of incidental fees are determined by the date of the cancellation of registration and not the date on which the last course was dropped.
Students dropping all their courses in a session may wish to speak to an Academic Advisor or Registrar’s Office staff about the academic and financial consequences of withdrawal.
Standing in a course

Grading scheme (as of September 1998)

Students are assigned a grade in each course, as follows (Grades earned prior to September 1998 remain as originally reported):

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

Grades of 'F' and 'NCR' 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.

Credit/No credit courses

In some courses, such as certain visual and performing arts courses, specific letter grades may not be assigned. Students may instead be graded on a Credit/No credit (CR/NCR) system.

The grade of "No credit" is a failing grade. Where students earn a grade of "Credit" in a course, the course is not included in the grade point average, whereas students earn a grade of "No Credit", the course is included as an "F" (value zero) in the grade point average.

Academic standing

On petition, a grade of "Academic" (AEG) may be assigned. This 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. Where a student is assigned Academic standing, the course counts as a credit but is not included in any grade point average. Students who require a letter grade will be expected to complete the work of the course.

Extra (EXT) courses

Extra courses are those courses in which students may not register for credit (see "Course Selection" above in this section of the Calendar). 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 average nor does the course count towards the degree. However, if appropriate, it may be used to satisfy program requirements.

Other notations

The following have no grade point value and do not yield credit:

- LWD Late withdrawal. (See the "Seasonal Dates" section of this Calendar. This grade is assigned to courses dropped after the initial deadline but before the examination period begins.)
- WDR Withdrawal by petition without academic penalty after the relevant deadline. (See "Special Consideration, Petitions and Appeals" below in this section of the Calendar.)
- GWR Grade withheld pending review
- NGA No grade available
- SDF Standing deferred on the basis of incomplete course work because of medical or similar means
- IPR In progress

Grade Reports

Final grades and academic standing are made available through ROSI. Grades are available as soon as they have been submitted and approved. Academic standing is available in September, January and May. Grade reports are sent only to students who are on academic probation, suspended or refused further registration.
Overall standing

Grade point averages (GPAs)
1. A grade point average is calculated as follows: the grade points earned in each full credit course and one-half the grade points earned in each half-credit course are added together and this total is divided by the number of full credits taken.
2. A sessional grade point average is calculated on the basis of all courses taken in a given session (Summer, Fall, Winter) having a grade point value.
3. A cumulative grade point average is calculated on the basis of all courses taken having a grade point value.
4. An annual grade point average is calculated on the basis of all courses taken in the Fall/Winter Sessions (September-May) 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.

Determination of academic status

Note: 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 admitted on condition”, “Determination of academic status for re-enrolling students at University of Toronto Scarborough” and “Determination of academic status for students in the Certificate Program in Business” below. Academic status will be determined as follows for students who have attempted at least three full credits since beginning their studies at the University of Toronto Scarborough or in other arts and science divisions of the University. It is determined at the end of each Session.

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 three full credits and have a cumulative GPA of less than 1.60 are placed on probation.
   • Students returning from suspension (see 5 below and any provision in previous rules) shall be placed on probation again.

3. Probation cleared
   Students may clear probation by achieving a cumulative GPA 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 who, by the end of a given session, have not either cleared probation or 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).
   • Students who have previously incurred a thirty-six month (nine-session) suspension will be refused further registration.

Policies and procedures governing students on probation

1. Students placed on probation are required to take a course load that does not exceed 2.0 full credits per session.
   • If the number of credits is not decreased, 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 will result in the student being withdrawn from all courses. If students petition successfully to re-enroll in courses after the registration deadline for the session, a late registration fee will be applied.
   • 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.

2. While on probation, students must meet with an advisor to discuss the reasons which led to the probation and to plan strategies to improve academic performance. (A list of appropriate advisors is available from the Registrar’s Office and at www.utm.utoronto.ca/registrar.)

Determination of academic status for students admitted on condition

In certain circumstances, students who do not meet normal admission requirements may be admitted "on condition". The academic status of such students is determined according to the following rules:
1. Academic status will be assessed for students admitted on condition at the end of the session in which they attempt their third full credit at the University of Toronto Scarborough.
2. Where such students earn a cumulative grade point average of 1.60 or better, their conditional status will be removed, and they will be said to be "in good standing".
3. Where such students earn a cumulative grade point average of less than 1.60, they will be refused further registration.
Courses on other campuses

Undergraduate Courses in the Faculty of Arts & Science or at the University of Toronto Mississauga
Students are permitted to take up to 5.0 full credits in other undergraduate arts and science divisions of the University of Toronto. No more than 1.0 of a student’s first 4.0 full credits as a U of T Scarborough student may be taken on another campus. Students may be withdrawn from courses after classes have started if their registration violates these rules. Students who first registered at U of T Scarborough in Fall 2002/Winter 2003 or earlier may, if they wish, follow the rules outlined in the 2002/2003 Calendar.

Courses taken at another university must also be submitted to the U of T Scarborough calendar for possible exclusions. Students who are in any doubt about whether or not an exclusion exists or whether or not a course can be used to meet a prerequisite of another course or can be applied to the program requirement should consult their program supervisor.

Note: Only programs offered by the University of Toronto Scarborough may be used to fulfill degree requirements.

Courses in Other Faculties
Students are not permitted to register for courses in Faculties other than the arts and science divisions of the University unless they have received permission by petition or unless the courses are required by their Specialist or Major Program.

Transfer to other Arts and Science Faculties
Students who are contemplating transfers to other divisions of the University should be aware that the University of Toronto Scarborough is in fact a separate facility and rules covering students at University of Toronto Scarborough may differ from those in the other arts and science divisions. Students are urged to consult the Admissions and Awards Office at 315 Hope Street West to establish how they will be affected by transferring from one arts and science division to another.

Study At Other Universities
Students who wish to take courses at another university and have credits transferred to U of T Scarborough must receive permission from U of T Scarborough to do so prior to taking the courses. Students who intend to count the courses towards Program requirements must also obtain the approval of the Program Supervisor, in writing. Students who study at other institutions without U of T Scarborough’s approval in advance do so at their own risk since permission to transfer courses for credit is not usually granted after the course has been taken. Duplication of previous study is not permitted. Students who study at another institution after leaving U of T Scarborough are required to supply official transcripts upon re-enrollment. Grades attained at other universities may affect a student’s academic status.

There are three types of Programs where transfer credit is considered. A Letter of Permission allows a student to study at a university similar in setting to the University of Toronto and usually, students are studying on a part-time basis. The Study Elsewhere program allows a student to study full-time at an accredited university in a different cultural setting to enhance the student’s educational experience. The program is called “Study Elsewhere” where we do not have exchange agreements in place with other universities. Where we do have exchange agreements with other universities, the program is called the Student Exchange Program.
One advantage of a Student Exchange program is that students pay their regular tuition fees at the University of Toronto. As you will note below, the regulations governing the programs differ. Another option for studying abroad is through the Summer Abroad Program administered by Woodsworth College where Faculty of Arts and Science (St. George Campus) courses are being offered at several locations around the world. Woodsworth College welcomes applications from U of T Scarborough students. The limits specified above in the "Courses on other campuses" section of this Calendar apply. Assistance with applying to study abroad opportunities offered by the University of Toronto, is available from the International Student Centre (ISC) at U of T Scarborough. Consult the ISC in the Student Centre, Room SL151, at 416-978-7181, or at isc@utsc.utoronto.ca.

Grades and Accountability
Students registering in courses offered by the University of Toronto earn credit and receive grades in the normal manner. To receive credit for other courses, the student must earn one full grade higher than the minimum passing grade (i.e., a C minus or better at universities using a grading scale similar to that of the University of Toronto). Grades are not recorded on transcripts and are not included in any grade point averages. Therefore, students taking courses for transfer credit will not be able to improve their grade point averages. However, grades achieved may be taken into consideration for usual eligibility if achievement is excellent or, if achievement is poor, may affect academic standing or program status. Students must arrange for the host universities to send official transcripts to U of T Scarborough promptly after completion of their courses. Students who do not register or who withdraw without academic penalty must also arrange for a letter from the Registrar of the host university confirming this. Failure to meet this or the minimum grade requirement will result in the notation of "no credit" or "failure" being entered on the student's transcript at the University of Toronto.

Fees and Aid
Students on Letters of Permission or in a Study Elsewhere program pay the appropriate fees to the host university. Those in Student Exchange programs pay tuition fees to the University of Toronto. Students who would be eligible for financial assistance through the Ontario Student Assistance Program for study at U of T Scarborough may be eligible for similar assistance. Consult Admissions and Awards (315 Bloor Street W) at 416-978-2190.

1. Letters of Permission
Application available at: www.utsc.utoronto.ca/register.
Deadline to apply: Apply at least three weeks prior to the start of the course.

To take a course at another university, students must, in advance, apply for and receive a "Letter of Permission" from U of T Scarborough. To be considered, a student must have completed 4.0 full credits at U of T Scarborough and be in good standing. Courses requested must be appropriate for degree credit at U of T Scarborough. In addition, the student must give reasons why the Letter of Permission is necessary. A maximum of 5.0 full credits may be obtained on a Letter of Permission and only 1.0 full credit at the C level or D level is permitted. If a student has received 5.0 or more full credits as transfer credits upon admission, it is unlikely that a Letter of Permission will be allowed. Letters of Permission are not normally granted for study at institutions within Toronto and surrounding regions. Students must have the prerequisites for the requested courses. If a course is needed to meet a program requirement, the student must also obtain the approval of the Program Supervisor. A student who is completing the final credit(s) for the degree on a Letter of Permission during the Winter Session may not apply to graduate at the June convocation but may apply for graduation at the November convocation.

Application Process: Obtain an application from the Registrar's Office website or pick up an application from Admissions and Student Recruitment, Room AA128. Students must provide compelling reasons for needing to take courses on a Letter of Permission; therefore, a written statement giving the rationale for needing a Letter of Permission must be submitted with the application. When assessing an application, we will also take into consideration a student's performance in courses related to the proposed course and performance in prerequisite courses. A fee will be charged for each Letter of Permission.

To receive credit for a course taken on a Letter of Permission, the course must be successfully completed with a grade above the minimum passing grade.

Special Note: French Summer Immersion Programs: Explore - Second Language Summer Program (formerly the Summer Language Enrichment Program) is administered by the Council of Ministers of Education, Government of Canada, in cooperation with the appropriate provincial department. In Ontario, this is the Ministry of Training, Colleges and Universities. Students interested in this five-week immersion Program (in Quebec or elsewhere in Canada) should complete the Explore forms promptly. For deadlines and requirements information, and to download the application forms, please refer to the Program website at www.jerphome.ca.

Consult with an Admissions and Student Recruitment staff member who does transfer credit evaluations and the Study-Elsewhere Supervisor in French about choosing three universities offering courses that most closely correspond to the curriculum at the University of Toronto. If you wish to be considered for transfer credit, choose degree level programs offered at "degree-granting" institutions (not colleges) and sponsored by Arts and Science type faculties (not professional faculties or schools of continuing education). Submit the form to the Registrar's Office to verify registration and mail promptly to enhance your chances of obtaining your first choice of university. Once you know the university to which you have been accepted and at least three weeks before your departure, apply for a Letter of Permission. You will be advised of the level in which you must register in order to be eligible for the credit to be transferred.
2. Study Elsewhere Program
Application available at: www.ontario.ca/student/exchange
Deadline to apply: February 1

Students normally apply for a Study Elsewhere year during the third year of a four-year Program. However students may apply after completing four full credits at U of T Scarborough. To be eligible for consideration, a student must normally have a cumulative grade point average of 2.5 or better. Students must normally return to U of T Scarborough to complete the final year of study. A maximum of 5.0 full credits will be considered for transfer. The number of transfer credits given on admission may affect eligibility for consideration or the number of transfer credits allowed to be taken while on Study Elsewhere. Since it may take a considerable amount of time to gather information about foreign universities, students should begin their preparation early. Most often students register at the host university and follow its courses for credit. It is possible that students may arrange to take University of Toronto independent study or supervised reading courses under supervision from University of Toronto faculty.

The application requires details about the proposed courses and asks students to show how the intended studies will enhance their studies at U of T Scarborough. Students who intend to count the courses towards Program requirements must obtain the approval of the Program Supervisor before submitting the application.

The application will be reviewed by the Study Elsewhere Committee.

3. Student Exchange Programs
Application available at: www.ontario.ca/student/exchange
Deadline to apply: late February, for most programs

The University of Toronto operates several institution-wide student exchange programs, providing excellent opportunities for academic and cultural experiences abroad and in other regions of Canada. Students normally participate in the third year of the four-year honours degree program. To be eligible for consideration, U of T Scarborough normally requires that the applicant have a cumulative grade point average of 2.25 or better. A maximum of 5.0 full credits will be considered for transfer. The number of transfer credits given on admission may affect eligibility for consideration or the number of transfer credits allowed to be taken while on exchange.

Interested students apply through the International Student Exchange Office (ISXO). A typical application is comprised of an application form, academic transcripts, résumé and photos, and two reference letters. Candidates who qualify for consideration are invited for interviews. Applicants are selected for nomination based on the whole application package, including the interviews. If nominated, the student is asked to complete an application which is then submitted to the host institute by the ISXO on behalf of the student. Though it rarely happens, partner institutions reserve the right to refuse nominated students. As the Hermon mantle, CUSAP and the Study Abroad Program at Nantes are not exchange programs, the application procedure is different – contact ISXO for details.

If accepted, U of T Scarborough students must obtain approval from Program Supervisors and from the Admissions and Transfer Credit Officer at U of T Scarborough for courses they intend to take, using the Course Recommendation Form issued once the student is nominated.

Below is a list of institutions at which undergraduate programs are available.

International Programs:
Argentina
Centre for Macroeconomic Study, Argentina (CEMA) *Universidad Torcuato Di Tella*

Australia
Australian National University
Griffith University
University of Adelaide
University of Melbourne
University of New South Wales
University of Queensland
University of Sydney
University of Wollongong

Austria
University of Vienna

Barbados
University of the West Indies (Cave Hill)

Belgium
Catholic University of Leuven

Brazil
University of Sao Paulo

Canada
Aedea University
McGill University
University of British Columbia

Chile
University of Chile
China
Beijing Foreign Studies University
Chinese University of Hong Kong
City University of Hong Kong
Fudan University
Shanghai Jiao Tong University
Tsinghua University
University of Hong Kong

Czech Republic
Masaryk University

Denmark
The University of Aarhus
University of Copenhagen

England
Kernowon Castle (CUSAP)
Keele University
King’s College, London
Lancaster University
Loughborough University
Royal Holloway University
University College, London
University of Birmingham
University of Bristol
University of Exeter
University of Leeds
University of Liverpool
University of Manchester
University of Nottingham
University of Sheffield
University of Sussex
University of Warwick

Estonia
University of Tartu

Finland
University of Helsinki
University of Jyväskylä

France
Lyon 1 (Claude Bernard University)
Lyon 2 (Lumière University)
Lyon 3 (Jean Moulin University)
Ontario/Alpes-App (a regional program)
Paris 1 (Pantheon-Sorbonne University)
Paris 3 (Sorbonne-Nouvelle University)
Paris 6 (Paris-Dauphine University)
Science Po, Aix-en-Provence
Science Po, Lille
Science Po Paris
Study Abroad Program at Nantes
University of Nantes

Germany
DAAD Scholarship Program
Humboldt University at Berlin
Freidrich Schiller University Jena
Ontario/Baden-Wurttemberg Program (a regional program)
University of Bonn
University of the Arts, Berlin

Ireland
National University of Ireland, Maynooth
University College, Dublin

Israel
Hebrew University of Jerusalem Award Program
Technion-Israel Institute of Technology
Tel Aviv University

Italy
University of Siena

Jamaica
University of the West Indies (Mona)

Japan
Akita International University
International Christian University
Keio University
Kwansei Gakuin University
Kyoto University
Kyushu University
Nagoya University
Nihon University
Rikkyo University
University of Tokyo
Waseda University
Yokohama National University

Kenya
University of Nairobi

Korea (South)
Ewha Woman's University
Korea University
Seoul National University
Sokekyung Women’s University
Yonsei University

Mexico
Technical University of Monterrey
UNAM-National Autonomous University of Mexico

The Netherlands
Maastricht University
The University of Amsterdam
Utrecht University

New Zealand
University of Auckland
University of Otago

Norway
University of Oslo

Poland
 Jagiellonian University

Scotland
University of Edinburgh
University of St. Andrews
University of Stirling
University of Strathclyde
<table>
<thead>
<tr>
<th>Country</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Singapore</td>
<td>Nanyang Technological University</td>
</tr>
<tr>
<td></td>
<td>National University of Singapore</td>
</tr>
<tr>
<td>Spain</td>
<td>Autonomous University of Madrid</td>
</tr>
<tr>
<td></td>
<td>Pompeu Fabra University</td>
</tr>
<tr>
<td></td>
<td>University of Granada</td>
</tr>
<tr>
<td></td>
<td>University of Salamanca</td>
</tr>
<tr>
<td>Sweden</td>
<td>University of Gothenburg</td>
</tr>
<tr>
<td></td>
<td>Lund University</td>
</tr>
<tr>
<td></td>
<td>Uppsala University</td>
</tr>
<tr>
<td>Switzerland</td>
<td>Swiss Federal Institute of Technology, Zurich</td>
</tr>
<tr>
<td></td>
<td>University of Geneva</td>
</tr>
<tr>
<td>Taiwan</td>
<td>National Taiwan University</td>
</tr>
<tr>
<td>Trinidad and Tobago</td>
<td>University of the West Indies (St. Augustine)</td>
</tr>
<tr>
<td>United States of America</td>
<td>Killen Fellowships Program</td>
</tr>
<tr>
<td></td>
<td>State University of New York, Buffalo</td>
</tr>
<tr>
<td>Wales</td>
<td>University of Swansea</td>
</tr>
</tbody>
</table>

For further information, applications and an up-dated list of current exchange programs, please contact:
International Student Exchange Office
Kieffer Student Services Centre, Room 202
214 College St., Toronto, ON M5T 2Z9
e: 416-946-3138, Fax: 416-978-6110
-email: student.exchange@utoronto.ca
www.utoronto.ca/student.exchange

4. **U of T Summer Abroad Programs**
University of Toronto Summer Abroad programs are administered by Woodsworth College in several countries or regions including Australia, Central Europe, China, Ecuador, England, France, Germany, Italy, Japan, Jordan, Kenya, Mexico and Russia. Students take regular full-year U of T Faculty of Arts and Science undergraduate degree courses that are relevant to the host site. All classes are taught in English, with the exception of some language courses. Financial aid is available for most programs. Because the Summer Abroad programs offer regular U of T courses, the course code and final grade will appear on the student's record just as any other U of T course does.

For more information, contact:
Professional and International Programs
Woodsworth College
119 St. George St. 3rd Floor
Phone: 416-978-6713
email: summer.abroad@utoronto.ca
website: www.summerabroad.utoronto.ca

**Note:** The limits specified above in the "Courses on other campuses" section of this Calendar apply to the Summer Abroad Program.

## Academic transcripts

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

### Contents

The transcript records the following information:

1. Information to identify the student: full name and university student number.
2. The student's academic record, listed chronologically by session:
   - each course attempted, its abbreviated title, and its grade including courses from which late withdrawal has been approved (see "Dropping courses" above);
   - the seasonal grade point average;
   - the cumulative grade point average at the end of the session;
   - the annual grade point average;
   - the student's academic status at the end of the session: in good standing, on academic probation, suspended for six months, suspended for twelve months, suspended for thirty-six months, refused further registration, or suspension deferred;
   - completion of Co-operative Program;
   - completion of degree and Program requirements, and date of conferral of the degree;
   - graduation with high distinction or with distinction.
3. The following kinds of special consideration granted by petition. (See "Special Consideration, Petitions and Appeals" below in this section of the Calendar.)
• withdrawal without academic penalty from a course after the relevant deadline. (See "Standing in a course" above in this section of the Calendar.)
• deferral of suspension;
• award of aegrotat standing;
• other consideration deemed to have altered the academic record.

Ordering Official Copies
Students may obtain copies of their academic transcripts, subject to reasonable notice and upon payment of a fee (per transcript copy). All requests for transcripts are processed centrally at the University of Toronto Transcript Centre on the St. George Campus. Copies of transcripts may be requested via ROOS at the following address: http://www.roos.utoronto.ca. Requests may also be made in person or by writing to the University of Toronto Transcript Centre, 100 St. George Street, Room #1066, Toronto, ON M5S 3G3. (See also the U of T Transcript Centre website: http://www.artsc.utoronto.ca/current/undergraduate/transcripts/.)

Payment by mail should take the form of a cheque or money order payable to "The University of Toronto". Telephone requests cannot be accepted. To prevent tampering, most institutional recipients insist that the transcript copy be sent directly to them.

Unofficial Copies
Students can obtain an unofficial copy of their academic history at no cost directly from the Student Web Service (ROOS): http://www.roos.utoronto.ca.

Examinations
Examinations are held at the end of each session. Students who make personal commitments during the examination period do so at their own risk. No special consideration will be given and no special arrangements made in the event of personal commitments.

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

Students are responsible for reading the timetable carefully and appearing at the time specified. Students taking courses during the day may be required to write evening examinations and students taking evening courses may be required to write day examinations.

Examinations (including deferred examinations) may be held on any day of the week. Every effort will be made to avoid scheduling them on Sundays. However, U of T Scarborough reserves the right to do so if necessary.

As soon as they are finalized, examination schedules are posted on the web at: http://www.arts.utoronto.ca/register.

The date of posting is normally no later than:

- August examination period: Mid-July
- December examination period: Mid-November
- April examination period: Mid-March

Examination timetable conflicts
Students scheduled to write two examinations at the same time should report their conflicts to the Registrar’s Office (Room AA142). Arrangements will normally be made for students to write both examinations on the same day, with a supervised break. Where the conflict involves a St. George Campus course, arrangements will normally be made for both examinations to be written at University of Toronto Scarborough. Requests for such arrangements must be made no later than two full weeks before the commencement of examinations and will not be considered after that time.

Students with three consecutive examinations
Students scheduled to write examinations in three consecutive time slots (these are morning, afternoon and evening) may request special arrangements. Requests for such arrangements must be made with the Registrar’s Office (Room AA142) no later than two full weeks before the commencement of examinations. Requests will not be considered after that time.

Note: This accommodation does not apply to students writing deferred examinations (see "B. Final Examinations" in the "Special consideration; petitions and appeals" section of this Calendar.)

Accommodation for Religious Observances
It is the policy of the University of Toronto 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 write to the Vice Dean (vicedean@arts.utoronto.ca) requesting an accommodation. This will normally be granted.

Special consideration regarding examinations
See the "Special consideration; petitions and appeals" section of this Calendar below.

Identification cards
Students will be required to identify themselves at examinations by means of their University of Toronto photo identification card (student card). Students who do not have this card should arrange to obtain one well in advance of the day of their first examination.
Use of calculators in tests and examinations

U of T Scarborough has a policy on the use of calculators in tests and examinations. Students should consult with instructors about whether the use of calculators is permissible in their course and, if so, which models are approved. The use of an unauthorized calculator may be treated as an academic offence.

Examination room regulations
1. All students are advised to familiarize themselves with the Code of Behaviour on Academic Matters which can be found at: http://www.governingscounsellingotoronto.ca/policies.
2. Students are advised to arrive at the examination room at least twenty minutes before the scheduled examination time.
3. Invigilators will begin the actual examination at the scheduled time.
4. No persons shall be allowed in an examination room during an examination except the students writing the examination and those supervising it.
5. Candidates shall bring their photo identification cards (TCard) and place them in a conspicuous place on their desks. Students registered in other Faculties or Colleges of the University shall bring their student cards.
6. Invigilators must assign seats to candidates.
7. No materials or electronic devices shall be brought into the examination room or used at an examination except those authorized by the Chair of the Examining Officer or Examiner. Unauthorized materials include but are not limited to: books, class notes, or aid sheets. Unauthorized electronic devices include but are not limited to: cellular telephones, laptop computers, programmable calculators, MP3 players (such as iPod), Personal Digital Assistants ("PDA" such as Palm Pilot or Blackberry), paperless electronic dictionaries, Compact Disc Players, and Mini Disc Players.
8. Candidates shall not communicate with one another in any manner whatsoever while the examinations are proceeding.
9. Candidates bringing any unauthorized materials or electronic devices into an examination room or who assist or obtain assistance from other candidates 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 and expulsion from the University.
10. In general, candidates will not be permitted to enter an examination room later than fifteen minutes after the commencement of the examination or to leave the examination room except under supervision until at least half an hour after the examination has commenced.
11. Candidates shall not leave the examination room within the final ten minutes of an examination, during which time they shall remain quietly seated at their desks.
12. At the conclusion of an examination all writing within the answer books shall cease. The invigilator may refuse to accept the papers of candidates who fail to observe this requirement.
13. Examination books and other material issued for the examination shall not be removed from the examination room without the authority of the invigilator.
14. At the conclusion of an examination all candidates must remain seated until all answer books have been collected. Candidates wishing to leave before the conclusion of an examination must also remain seated until their answer books are collected.

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

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 the 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 that they have been unusually affected by a deviation from University Policy or approved practice. If you find yourself in such a situation, it is important that you follow the appropriate procedures and meet any published deadlines.

Policies and deadlines for courses taken on other campuses may differ from those outlined below. See the Faculty of Arts & Science and the University of Toronto Mississauga Calendars for regulations regarding their courses. You are responsible for observing the regulations governing any courses you take on other campuses. However, all U of T Scarborough students must adhere to U of T Scarborough deadlines for petitions and appeals, irrespective of the Campus on which the course is taken.

You should seek special consideration only when there are circumstances which are not only beyond your control but which you could not reasonably have anticipated or overcome and which have seriously affected your studies.

A. Term work

1. If:
   - you are unable to write a term test, or
   - your performance on a test is adversely affected by illness or other extenuating circumstances, or
   - you cannot submit term work by your instructor’s deadlines
   speak with your instructor as soon as possible to request special consideration. This is granted at his or her discretion. If you wish to appeal your instructor’s decision, speak with or write to the Chair of the Department offering the course.
2. If it is close to the end of term or session and you need an extension of time to complete term work or to write a term test, your instructor jointly with the Departmental Chair may give you an extension for up to a week after the last date to submit term work.

3. If you need more than a week’s extension, you must submit a formal petition (see D below). If your petition is granted, you will be given a deadline by which to complete the work.

B. Final examinations

1. If you miss a final examination, you may request a deferred examination through eService on the Registrar’s Office website (www.ontario.ca/registrar) by the appropriate deadline. (See the “Sessional Dates” section of this Calendar.) You are strongly advised, before missing an examination, to discuss the possible consequences of deferring an examination with an academic advisor and to consider doing so only in the case of illness or other truly exceptional circumstances for you may be placing yourself at a disadvantage by sitting an examination long after the course has finished.

2. If you choose to write an examination, you may not petition to rewrite it. In truly exceptional circumstances such as a significant illness that manifests itself during an examination, you may petition to defer the exam that you have begun (see D below). This would require both corroboration from the examination invigilator and documentation from a health care professional.

3. Deferred examinations for all University of Toronto Scarborough courses are held as follows:
   - exams deferred from April and May are held in the August examination period or the study break that precedes it;
   - exams deferred from August are held in the December examination period or the study break that precedes it;
   - exams deferred from December are held in the April/May examination period or the study break that precedes it.

Note: Deferred examinations in other arts and science divisions of the University may be scheduled at times other than those listed above.

4. You must pay a fee by the given deadline to write any University of Toronto Scarborough deferred examination. (See the “Sessional Dates” section of this Calendar.) Failure to pay the fee will result in loss of privilege to sit the examination.

5. If you defer three or more examinations in one examination period, you may take no more than 1.5 full credits (three half-credit courses) in the session leading up to the deferred examinations, e.g. if you have three or more deferred examinations in the December examination period, you may take no more than 1.5 full credits in the Fall Session. In this situation, you will be given until the end of the first week of classes to make appropriate adjustments to your course load. Failure to do so by the deadline (see the “Sessional Dates” section of this Calendar) will result in the cancellation of all of your courses in the session.

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

7. If you miss a deferred exam, you may petition for an extension of time to write it (see D below); normally no other form of special consideration will be granted. Such a petition will be considered only if you provide compelling evidence of a significant medical or other emergency. A petition for an extension of time to sit a deferred examination will be considered only once.

8. Under truly exceptional circumstances, students who will unavoidably be outside the Toronto area during the special examination period may petition for permission to write at an outside centre. Such a 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.

A non-refundable fee of $30.00 for each examination to be written at an outside centre is charged in addition to the regular deferred examination fee of $70.00. Students who are given permission to write at an outside centre are also responsible for all costs of invigilation, courier charges and other related expenses. Since these may exceed $100.00 per examination, students are advised to assess the total costs before petitioning.

C. Marks and Grades

1. Checking Marks: Term Work
   If you think that your mark on a term test or assignment has been calculated incorrectly, ask your instructor to check the mark. Do this as soon as possible and certainly before the end of the session. If you wish to appeal an instructor’s decision about the grading of term work, speak with or write to the Chair of the Department offering the course.

2. Copies of final examinations
   Within ninety days of the relevant examination period you may obtain a photocopy of your final exam using eService on the Registrar’s Office webpage. After that date, examinations are destroyed. A non-refundable fee is charged.

   Note: Occasionally, Departments may not release final examinations in particular courses – check the list posted in eService.

3. Clerical Check of Marks: Final Examinations
   If you think there is an error in the calculation of your final grade, within ninety days of the relevant examination period you may request a recheck of the calculation using eService on the Registrar’s Office webpage. (It is not necessary to purchase a copy of your exam to make this request.) A fee is charged. If an error is discovered which results in a change of the final letter grade, the amended grade will stand whether it is higher or lower.

   Please note that before submitting any failing grade, instructors are required to re-read the final exam and recheck the calculation of term and final marks.

4. Appealing Assigned Grades
   If you wish to appeal a mark on term work returned to you only after the end of term and after the instructor has submitted grades for the course, you may submit a formal petition (see D below). This must be done within ninety days of the relevant examination period.
If, after obtaining a copy of a final examination, you wish to request that it be re-read, you may submit a petition for re-reading (see D below). You must do this within ninety days of the relevant examination period.

When authorized, the re-reading is arranged by the Department offering the course, which also authorizes any change in grade. Normally the re-reading is done by the course instructor, unless you make a convincing argument that the work 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.

5. Violations of the Grading Practices Policy
   (a) If you think an instructor has violated the Grading Practices Policy, discuss your complaint with the instructor. If the violation relates to the announced schedule of assignments or the marking scheme, you must do this no later than the fourth week of classes. If it relates to changes in or divergence from the announced marking scheme, you must do this before the end of the final examination period.
   (b) If this discussion does not result in a satisfactory solution, you may appeal the instructor’s decision to the Chair of the Department offering the course. If this appeal does not resolve the problem, you may appeal to the Vice-Principal (Academic) & Dean of UTSC.
   (c) If you wish to withdraw from a course after the last day to withdraw without academic penalty on the grounds of a violation of the Grading Practices Policy, you must submit a formal petition (see D below). If your petition is granted because a violation of the Policy has occurred, no record of your registration in the course will appear on your transcript. You cannot petition to withdraw from a course on the grounds that no work was returned to you before the last day to withdraw without academic penalty if this is the result of your having been given an extension to complete your work for reasons relating to you and not the rest of your class.

D. Petitions

A petition is a formal request that an exception to an academic regulation be made in your case. You must have good reason to make such a request, and you must show that you have acted responsibly and with good judgment in observing the academic regulations to the extent possible. Please note that some academic matters cannot be petitioned, although sometimes these may be resolved with an instructor or a Department offering a course.

Where a petition is justified, it must be filed by the appropriate deadline (see E below). Even if a petition has been filed by the deadline, it will not be considered if documentation is not provided within ten business days of its submission.

1. Petitions are submitted online using eService. This service can be found on the Registrar’s Office webpage at www.utoronto.ca/registrar.

2. If you think the issue is simple and the solution straightforward, you may not need advice or assistance with your petition. However, if there are more complex academic issues involved you may want to speak first with your instructor, program supervisor or discipline representative. If serious personal problems are involved, you should try to meet with an academic advisor in the Academic Advising & Career Centre or a personal counsellor in the Health and Wellness Centre. Do not let this recommendation interfere with your submitting your petition by the deadline.

3. Submit whatever documentation is necessary to support your request.
   (a) Medical certificates must show
      • that you were examined at the time of illness
      • the degree of disability involved
      • the duration of the disability
      • the practitioner’s professional opinion as to whether you should receive special consideration on medical grounds.
   You are urged to use the University of Toronto Scarborough Student Medical Certificate for this purpose. A copy of the Student Medical Certificate may be downloaded from www.utoronto.ca/registrar - select the eService tab. Medical documentation for examinations missed because of illness must be obtained on the day of the examination whenever possible.
   (b) Statements from social workers, lawyers, clergy and other professionals must
      • state the nature and extent of the problem
      • give his or her professional opinion as to whether you should receive special consideration on the grounds documented in your petition.

4. Petitions for re-reading of final examinations and of term work returned to you after the end of a session and after the instructor has submitted grades for the course will be granted only if you
   • articulate clear grounds for reconsideration, addressing the substance of an answer in relation to the mark given or otherwise identifying the nature of the alleged misevaluation;
• show that the alleged misvaluation 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. A photocopy of the examination or term work and supporting evidence must be submitted with the petition.

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

6. If your petition is granted, the following will be recorded on your 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).

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

E. Deadlines

The deadlines below apply to the University of Toronto Scarborough. Deadlines and policies for courses taken on other campuses may differ: see the appropriate Faculty Calendar.

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 (see the Calendar): last day of the examination period

2. Final Examinations
   Summer, Fall and Winter Sessions
   • requests to write deferred examinations: one week after the last day of the examination period. (See the “Sessional Dates” section of this Calendar.)
   Note: Petitions are required only if the course is a Summer Session F course (May-June) or if the student becomes ill while writing the examination. Otherwise, students should use eService at www.utsc.utoronto.ca/registrar to request a deferred examination.

3. Missed Deferred Examinations
   • petitions to write a deferred examination which has been missed: last day of the relevant examination period

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 you after the end of term: ninety days after the relevant examination period
   • requests for a photocopy of a final examination: ninety days after the relevant examination period
   • requests for recalculation of marks through the Registrar’s Office: ninety days after the relevant examination period
   • petitions for re-reading of a final examination: ninety days after the relevant examination period

F. Appeals

1. You may appeal denial of a petition to the Sub-committee on Academic Appeals. Such appeals must be commenced no later than ninety days after the decision being appealed has been communicated to you in writing. An appeal is commenced by filing a Notice of Appeal on the form provided for this purpose through the Office of the Vice Dean, Room A3/429 (telephone 416-283-2755). Full information may be obtained from that office.

2. You may appeal a decision of the Sub-committee on Academic Appeals to the Academic Appeals Committee of Governing Council. Such appeals must be commenced no later than ninety days after the decision being appealed has been communicated to you in writing. An appeal is commenced by filing a Notice of Appeal to the Secretary of the Appeals Committee on the form provided for this purpose. Full information may be obtained from the:
   Judicial Affairs Office
   Office of the Governing Council
   Room 106, Stake Hall
   St. George Campus
   (Telephone: 416-946-7663)
University of Toronto Policies

As members of the University of Toronto community, students assume certain responsibilities and are guaranteed certain rights and freedoms.

The University has several policies that are approved by the Governing Council and which apply to all students. Each student must become familiar with the policies. The University will assume that he or she has done so. The rules and regulations of the Faculty are displayed in this Calendar. In applying to the Faculty, the student assumes certain responsibilities to the University and the Faculty and, if admitted and registered, shall be subject to all rules, regulations and policies cited in the Calendar, as amended from time to time.

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

• Policy on Access to Student Academic Records
• Code of Behaviour on Academic Matters
• Code of Student Conduct
• Grading Practices Policy
• Policy on Official Correspondence with Students

More information about students’ rights and responsibilities can be found at:
http://www.students.utoronto.ca/The_Basics/Robes_and_Rules.htm
# Index

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Advising</td>
<td>12</td>
</tr>
<tr>
<td>Academic Calendar</td>
<td>6</td>
</tr>
<tr>
<td>Academic Regulations</td>
<td>314</td>
</tr>
<tr>
<td>Academic Resources</td>
<td>10</td>
</tr>
<tr>
<td>Academic Standing</td>
<td>319</td>
</tr>
<tr>
<td>Academic Transcripts</td>
<td>324</td>
</tr>
<tr>
<td>Access/Ability Services</td>
<td>12</td>
</tr>
<tr>
<td>Admission Awards</td>
<td>304</td>
</tr>
<tr>
<td>Admission Requirements</td>
<td>301</td>
</tr>
<tr>
<td>Admissions</td>
<td>300</td>
</tr>
<tr>
<td>Agricul Standing</td>
<td>318</td>
</tr>
<tr>
<td>African Studies</td>
<td>27</td>
</tr>
<tr>
<td>African Studies Minor Program</td>
<td>27</td>
</tr>
<tr>
<td>Anthropology</td>
<td>28</td>
</tr>
<tr>
<td>Anthropology Major Program (B.A./B.Sc.)</td>
<td>30</td>
</tr>
<tr>
<td>Anthropology Minor Program (B.A.)</td>
<td>30</td>
</tr>
<tr>
<td>Anthropology Specialist (Co-operative) Program (B.A./B.Sc.)</td>
<td>29</td>
</tr>
<tr>
<td>Appeals Procedure</td>
<td>329</td>
</tr>
<tr>
<td>Application Deadlines</td>
<td>300</td>
</tr>
<tr>
<td>Application Procedures</td>
<td>300</td>
</tr>
<tr>
<td>Approved Individual Programs</td>
<td>18</td>
</tr>
<tr>
<td>Art And Culture Specialist Program</td>
<td>271</td>
</tr>
<tr>
<td>Art History</td>
<td>275</td>
</tr>
<tr>
<td>Art History Major Program</td>
<td>275</td>
</tr>
<tr>
<td>Art History Minor Program</td>
<td>275</td>
</tr>
<tr>
<td>Arts Management</td>
<td>278</td>
</tr>
<tr>
<td>Arts Management Specialist (Co-operative) Program</td>
<td>280</td>
</tr>
<tr>
<td>Arts Management Specialist Program</td>
<td>278</td>
</tr>
<tr>
<td>Astronomy</td>
<td>38</td>
</tr>
<tr>
<td>Astrophysics And Physics Major Program</td>
<td>229</td>
</tr>
<tr>
<td>Athletics</td>
<td>14</td>
</tr>
<tr>
<td>Awards</td>
<td>303</td>
</tr>
<tr>
<td>Admission Awards</td>
<td>304</td>
</tr>
<tr>
<td>Bursaries</td>
<td>312</td>
</tr>
<tr>
<td>Graduation Prizes</td>
<td>313</td>
</tr>
<tr>
<td>Honours List</td>
<td>306</td>
</tr>
<tr>
<td>In-course Awards</td>
<td>306</td>
</tr>
<tr>
<td>Needs-Based Awards</td>
<td>312</td>
</tr>
<tr>
<td>Biochemistry Major Program</td>
<td>55</td>
</tr>
<tr>
<td>Biological Chemistry Specialist Program</td>
<td>52</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>39</td>
</tr>
<tr>
<td>Biology</td>
<td>39</td>
</tr>
<tr>
<td>Biology Minor Program</td>
<td>45</td>
</tr>
<tr>
<td>Bursaries</td>
<td>312</td>
</tr>
<tr>
<td>Business Certificate</td>
<td>185</td>
</tr>
<tr>
<td>Business Certificate requirements</td>
<td>17</td>
</tr>
<tr>
<td>Career Counselling</td>
<td>12</td>
</tr>
<tr>
<td>Cell And Molecular Biology Specialist (Co-operative) Program</td>
<td>41</td>
</tr>
<tr>
<td>Cell And Molecular Biology Specialist Program</td>
<td>41</td>
</tr>
<tr>
<td>Centennial College, Ass Prof Programs</td>
<td>20</td>
</tr>
<tr>
<td>Centre for Teaching and Learning</td>
<td>10</td>
</tr>
<tr>
<td>Certificate Program in Business</td>
<td>17</td>
</tr>
<tr>
<td>Chemistry</td>
<td>51</td>
</tr>
<tr>
<td>Chemistry Major Program</td>
<td>54</td>
</tr>
<tr>
<td>Chemistry Specialist Program</td>
<td>53</td>
</tr>
<tr>
<td>Child Care Centre</td>
<td>13</td>
</tr>
<tr>
<td>City Studies</td>
<td>58</td>
</tr>
<tr>
<td>City Studies Major (Co-operative) Program</td>
<td>60</td>
</tr>
<tr>
<td>City Studies Major Program</td>
<td>58</td>
</tr>
<tr>
<td>Classical Studies</td>
<td>61</td>
</tr>
<tr>
<td>Classical Studies Minor Program</td>
<td>61</td>
</tr>
<tr>
<td>Cognitive Science</td>
<td>64</td>
</tr>
<tr>
<td>Computer Science</td>
<td>64</td>
</tr>
<tr>
<td>Computer Science Major (Co-operative) Program</td>
<td>72</td>
</tr>
<tr>
<td>Computer Science Major Program</td>
<td>72</td>
</tr>
<tr>
<td>Computer Science Minor Program</td>
<td>74</td>
</tr>
<tr>
<td>Computer Science Specialist (Co-operative) Program</td>
<td>72</td>
</tr>
<tr>
<td>Computer Science Specialist Program</td>
<td>65</td>
</tr>
<tr>
<td>Computing &amp; Networking Services</td>
<td>10</td>
</tr>
<tr>
<td>Concurrent Teacher Education</td>
<td>78</td>
</tr>
<tr>
<td>Condition</td>
<td>319</td>
</tr>
<tr>
<td>Conservation Biology Specialist (Co-operative) Program</td>
<td>43</td>
</tr>
<tr>
<td>Conservation Biology Specialist Program</td>
<td>42</td>
</tr>
<tr>
<td>Co-operative Program In Physical Sciences Program</td>
<td>221</td>
</tr>
<tr>
<td>Co-operative Program (B.A./B.Sc.)</td>
<td>19</td>
</tr>
<tr>
<td>Co-operative Program In Management Program</td>
<td>180</td>
</tr>
<tr>
<td>Corequisites, Course</td>
<td>25</td>
</tr>
<tr>
<td>Counselling Services</td>
<td>12</td>
</tr>
<tr>
<td>Course</td>
<td>25</td>
</tr>
<tr>
<td>Corequisites</td>
<td>25</td>
</tr>
<tr>
<td>Corequisites, Course</td>
<td>318</td>
</tr>
<tr>
<td>Prerequisites</td>
<td>25</td>
</tr>
<tr>
<td>Selection</td>
<td>315</td>
</tr>
<tr>
<td>Course description, how to read</td>
<td>26</td>
</tr>
<tr>
<td>Courses</td>
<td>25</td>
</tr>
<tr>
<td>Courses on other Campuses</td>
<td>320</td>
</tr>
<tr>
<td>Dates &amp; Deadlines, Sessional</td>
<td>6</td>
</tr>
<tr>
<td>Day Care</td>
<td>12</td>
</tr>
<tr>
<td>Debs to the University</td>
<td>314</td>
</tr>
<tr>
<td>Degree Navigator</td>
<td>315</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>16</td>
</tr>
<tr>
<td>Degrees</td>
<td>16</td>
</tr>
<tr>
<td>Departmental Structure</td>
<td>8</td>
</tr>
<tr>
<td>Disasters and Transnational Studies</td>
<td>81</td>
</tr>
<tr>
<td>Disasters and Transnational Studies Major Program</td>
<td>81</td>
</tr>
<tr>
<td>Disasters and Transnational Studies Minor Program</td>
<td>82</td>
</tr>
<tr>
<td>Drama</td>
<td>262</td>
</tr>
<tr>
<td>Drama Major Program</td>
<td>282</td>
</tr>
<tr>
<td>Drama Minor Program</td>
<td>283</td>
</tr>
<tr>
<td>Drama Minor Program</td>
<td>317</td>
</tr>
<tr>
<td>Early Teacher Project Program</td>
<td>220</td>
</tr>
<tr>
<td>Economics For Management Studies</td>
<td>83</td>
</tr>
<tr>
<td>Economics For Management Studies Major Program (B.A.)</td>
<td>85</td>
</tr>
<tr>
<td>Economics For Management Studies Minor Program (B.A.)</td>
<td>86</td>
</tr>
<tr>
<td>Economics For Management Studies Specialist (Co-operative) Program (B.A.)</td>
<td>84</td>
</tr>
<tr>
<td>Economics For Management Studies Specialist Program</td>
<td>181</td>
</tr>
<tr>
<td>Economics For Management Studies Specialist Program (B.A.)</td>
<td>84</td>
</tr>
<tr>
<td>Education</td>
<td>78</td>
</tr>
<tr>
<td>Education Of Teachers In French Specialist Program</td>
<td>118</td>
</tr>
<tr>
<td>English</td>
<td>91</td>
</tr>
<tr>
<td>English Literature Minor Program</td>
<td>93</td>
</tr>
<tr>
<td>English Major Program</td>
<td>92</td>
</tr>
<tr>
<td>English Specialist Program</td>
<td>92</td>
</tr>
<tr>
<td>Environmental Biology Specialist Program</td>
<td>104</td>
</tr>
<tr>
<td>Environmental Chemistry Specialist Program</td>
<td>105</td>
</tr>
<tr>
<td>Environmental Geoscience Specialist Program</td>
<td>106</td>
</tr>
<tr>
<td>Environmental Physics Specialist Program</td>
<td>107</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>105</td>
</tr>
<tr>
<td>Environmental Science - Environmental Biology Stream Major Program</td>
<td>109</td>
</tr>
<tr>
<td>Environmental Science - General Environmental Science Stream Major Program</td>
<td>109</td>
</tr>
<tr>
<td>Environmental Science - Water Science Stream Major Program</td>
<td>109</td>
</tr>
<tr>
<td>Environmental Science And Technology</td>
<td>110</td>
</tr>
<tr>
<td>Environmental Science And Technology Specialist (Joint) Program</td>
<td>114</td>
</tr>
<tr>
<td>Environmental Science Major Program</td>
<td>108</td>
</tr>
<tr>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>Environmental Science Minor Program</td>
<td>110</td>
</tr>
<tr>
<td>Examination schedules</td>
<td>6</td>
</tr>
<tr>
<td>Examinations</td>
<td>325</td>
</tr>
<tr>
<td>Exchange Programs</td>
<td>322</td>
</tr>
<tr>
<td>Exclination, Course</td>
<td>25</td>
</tr>
<tr>
<td>Extra Courses</td>
<td>115</td>
</tr>
<tr>
<td>Fee Payment</td>
<td>318</td>
</tr>
<tr>
<td>Final examinations</td>
<td>327</td>
</tr>
<tr>
<td>Financial Aid</td>
<td>13</td>
</tr>
<tr>
<td>Frech</td>
<td>117</td>
</tr>
<tr>
<td>French As A Second Language Minor Program</td>
<td>119</td>
</tr>
<tr>
<td>French For Fransophones Minor Program</td>
<td>119</td>
</tr>
<tr>
<td>French Major Program</td>
<td>118</td>
</tr>
<tr>
<td>French Minor Program</td>
<td>119</td>
</tr>
<tr>
<td>French Specialist Program</td>
<td>118</td>
</tr>
<tr>
<td>Geography</td>
<td>124</td>
</tr>
<tr>
<td>Global Asia Studies</td>
<td>128</td>
</tr>
<tr>
<td>Global Asia Studies Major Program</td>
<td>129</td>
</tr>
<tr>
<td>Global Asia Studies Minor Program</td>
<td>130</td>
</tr>
<tr>
<td>Global Asia Studies Specialist Program</td>
<td>128</td>
</tr>
<tr>
<td>Good Standing</td>
<td>319</td>
</tr>
<tr>
<td>Grade Point Average (GPA)</td>
<td>319</td>
</tr>
<tr>
<td>Grade Reporting</td>
<td>318, 320</td>
</tr>
<tr>
<td>Grades</td>
<td>318</td>
</tr>
<tr>
<td>Graduation Prices</td>
<td>313</td>
</tr>
<tr>
<td>Graduation With High Distinction &amp; Distinction</td>
<td>313</td>
</tr>
<tr>
<td>Health &amp; Wellness Centre</td>
<td>13</td>
</tr>
<tr>
<td>Health Studies</td>
<td>133</td>
</tr>
<tr>
<td>Health Studies Major (Co-operative) Program</td>
<td>133</td>
</tr>
<tr>
<td>Health Studies Major Program (B.A./B.Sc.)</td>
<td>134</td>
</tr>
<tr>
<td>Health Studies Minor Program (B.A.)</td>
<td>135</td>
</tr>
<tr>
<td>History</td>
<td>136</td>
</tr>
<tr>
<td>History Major Program</td>
<td>137</td>
</tr>
<tr>
<td>History Minor Program</td>
<td>138</td>
</tr>
<tr>
<td>History Of UTSC</td>
<td>9</td>
</tr>
<tr>
<td>History Specialist Program</td>
<td>137</td>
</tr>
<tr>
<td>Honour's List</td>
<td>306</td>
</tr>
<tr>
<td>Housing, Student</td>
<td>15</td>
</tr>
<tr>
<td>Human Biology Specialist Program</td>
<td>43</td>
</tr>
<tr>
<td>Human Geography Major Program</td>
<td>124</td>
</tr>
<tr>
<td>Human Geography Minor Program</td>
<td>125</td>
</tr>
<tr>
<td>Humanities</td>
<td>125</td>
</tr>
<tr>
<td>Humanities Co-operative</td>
<td>146</td>
</tr>
<tr>
<td>Important Notices</td>
<td>14</td>
</tr>
<tr>
<td>In-course Awards</td>
<td>305</td>
</tr>
<tr>
<td>In-course Scholarships</td>
<td>306</td>
</tr>
<tr>
<td>Industrial Microbiology</td>
<td>148</td>
</tr>
<tr>
<td>Industrial Microbiology Specialist (Joint Program)</td>
<td>148</td>
</tr>
<tr>
<td>Information &amp; Instructional Technology Services</td>
<td>10</td>
</tr>
<tr>
<td>Integrative Biology Major Program</td>
<td>44</td>
</tr>
<tr>
<td>Integrative Biology Specialist Program</td>
<td>44</td>
</tr>
<tr>
<td>Interfaculty Combination Program In International Development Studies And Environmental Studies Program</td>
<td>157</td>
</tr>
<tr>
<td>International Development Studies</td>
<td>151</td>
</tr>
<tr>
<td>International Development Studies Major Program (B.A./B.Sc.)</td>
<td>156</td>
</tr>
<tr>
<td>International Development Studies Minor Program (B.A.)</td>
<td>157</td>
</tr>
<tr>
<td>International Development Studies Specialist Program (Co-operative) Program (B.A./B.Sc.)</td>
<td>154</td>
</tr>
<tr>
<td>International Development Studies Specialist Program (B.A.)</td>
<td>152</td>
</tr>
<tr>
<td>International Studies Specialist Program (B.A./B.Sc.)</td>
<td>153</td>
</tr>
<tr>
<td>International Student Centre</td>
<td>12</td>
</tr>
<tr>
<td>International Studies</td>
<td>129</td>
</tr>
<tr>
<td>International Studies Major (Co-operative) Program</td>
<td>159</td>
</tr>
<tr>
<td>International Studies Major Program</td>
<td>160</td>
</tr>
<tr>
<td>Intersections, Exchanges, Encounters in the Humanities</td>
<td>161</td>
</tr>
<tr>
<td>Intersections, Exchanges, Encounters In the Humanities Major Program</td>
<td>162</td>
</tr>
<tr>
<td>Joint Programs with Centennial College</td>
<td>20</td>
</tr>
<tr>
<td>Journalism</td>
<td>165</td>
</tr>
<tr>
<td>Journalism Specialist (Joint) Program</td>
<td>165</td>
</tr>
<tr>
<td>Language Citation</td>
<td>21</td>
</tr>
<tr>
<td>Language</td>
<td>166</td>
</tr>
<tr>
<td>Letters of Permission</td>
<td>321</td>
</tr>
<tr>
<td>Library Services</td>
<td>10</td>
</tr>
<tr>
<td>Life Sciences</td>
<td>39</td>
</tr>
<tr>
<td>Linguistics</td>
<td>173</td>
</tr>
<tr>
<td>Linguistics Major Program</td>
<td>175</td>
</tr>
<tr>
<td>Linguistics Minor Program</td>
<td>175</td>
</tr>
<tr>
<td>Linguistics Specialist Program</td>
<td>174</td>
</tr>
<tr>
<td>Management</td>
<td>172</td>
</tr>
<tr>
<td>Management And Accounting Specialist Program</td>
<td>155</td>
</tr>
<tr>
<td>Management And Finance Specialist Program</td>
<td>182</td>
</tr>
<tr>
<td>Management And Human Resources Specialist Program</td>
<td>183</td>
</tr>
<tr>
<td>Management And Humanities Specialist Program</td>
<td>183</td>
</tr>
<tr>
<td>Management And Information Technology Specialist Program</td>
<td>183</td>
</tr>
<tr>
<td>Management And Language Specialist Program</td>
<td>183</td>
</tr>
<tr>
<td>Management And Life Sciences Specialist Program</td>
<td>185</td>
</tr>
<tr>
<td>Management And Marketing Specialist Program</td>
<td>184</td>
</tr>
<tr>
<td>Management And Science Specialist Program</td>
<td>185</td>
</tr>
<tr>
<td>Management And Social Sciences Specialist Program</td>
<td>185</td>
</tr>
<tr>
<td>Management Specialist Program</td>
<td>181</td>
</tr>
<tr>
<td>Maps</td>
<td>334</td>
</tr>
<tr>
<td>Mathematics</td>
<td>192</td>
</tr>
<tr>
<td>Mathematics And Its Applications Specialist Program</td>
<td>195</td>
</tr>
<tr>
<td>Mathematics Major Program</td>
<td>194</td>
</tr>
<tr>
<td>Mathematics Specialist Program</td>
<td>193</td>
</tr>
<tr>
<td>Media Studies</td>
<td>200</td>
</tr>
<tr>
<td>Media Studies Major Program</td>
<td>200</td>
</tr>
<tr>
<td>Medical Anthropology Specialist Program</td>
<td>243</td>
</tr>
<tr>
<td>Mental Health Studies Major Program</td>
<td>243</td>
</tr>
<tr>
<td>Mental Health Studies Specialist (Co-operative) Program</td>
<td>242</td>
</tr>
<tr>
<td>Mental Health Studies Specialist Program</td>
<td>242</td>
</tr>
<tr>
<td>Music</td>
<td>285</td>
</tr>
<tr>
<td>Music And Culture Major Program</td>
<td>286</td>
</tr>
<tr>
<td>Music And Culture Minor Program</td>
<td>286</td>
</tr>
<tr>
<td>Natural Sciences Specialist Program</td>
<td>223</td>
</tr>
<tr>
<td>Need Based Awards</td>
<td>312</td>
</tr>
<tr>
<td>Neuroscience</td>
<td>205</td>
</tr>
<tr>
<td>Neuroscience Major Program</td>
<td>208</td>
</tr>
<tr>
<td>Neuroscience Specialist (Co-operative) Program</td>
<td>207</td>
</tr>
<tr>
<td>Neuroscience Specialist Program</td>
<td>206</td>
</tr>
<tr>
<td>New Media Studies</td>
<td>210</td>
</tr>
<tr>
<td>New Media Studies Major (Joint) Program</td>
<td>210</td>
</tr>
<tr>
<td>Non-Credit</td>
<td>316</td>
</tr>
<tr>
<td>Non-Degree Students</td>
<td>17</td>
</tr>
<tr>
<td>Noblesmith: Child Care Centre</td>
<td>13</td>
</tr>
<tr>
<td>Office of Student Affairs and Services</td>
<td>11</td>
</tr>
<tr>
<td>Officials of the University of Toronto</td>
<td>8</td>
</tr>
<tr>
<td>Oshawaipson, University</td>
<td>14</td>
</tr>
<tr>
<td>Other Compass, Coursos on Overall Standing</td>
<td>320</td>
</tr>
<tr>
<td>Paramedicine</td>
<td>319</td>
</tr>
<tr>
<td>Pansenscience Specialist (Joint) Program</td>
<td>213</td>
</tr>
<tr>
<td>Petitions Procedure</td>
<td>325</td>
</tr>
<tr>
<td>Philosophy</td>
<td>215</td>
</tr>
<tr>
<td>Philosophy Major Program</td>
<td>216</td>
</tr>
<tr>
<td>Philosophy Minor Program</td>
<td>216</td>
</tr>
<tr>
<td>Philosophy Specialist Program</td>
<td>216</td>
</tr>
<tr>
<td>Physical And Human Geography Major Program</td>
<td>125</td>
</tr>
<tr>
<td>Physical And Mathematical Sciences Specialist Program</td>
<td>223</td>
</tr>
<tr>
<td>Physical Education &amp; Athletics - Recreation Centre</td>
<td>14</td>
</tr>
<tr>
<td>Physical Sciences</td>
<td>220</td>
</tr>
<tr>
<td>Physical Sciences Major Program</td>
<td>224</td>
</tr>
<tr>
<td>Physics</td>
<td>226</td>
</tr>
<tr>
<td>Physics And Its Applications Specialist Program</td>
<td>226</td>
</tr>
<tr>
<td>Police Services</td>
<td>14</td>
</tr>
<tr>
<td>Course Title</td>
<td>Page</td>
</tr>
<tr>
<td>-----------------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Political Science</td>
<td>231</td>
</tr>
<tr>
<td>Political Science And Economics For Management</td>
<td>85</td>
</tr>
<tr>
<td>Studies Specialist Program (B.A.)</td>
<td>232</td>
</tr>
<tr>
<td>Political Science Major Program</td>
<td>232</td>
</tr>
<tr>
<td>Political Science Minor Program</td>
<td>232</td>
</tr>
<tr>
<td>Political Science Specialist Program</td>
<td>231</td>
</tr>
<tr>
<td>Pre-requisite, Course</td>
<td>25</td>
</tr>
<tr>
<td>Probation, Academic</td>
<td>319</td>
</tr>
<tr>
<td>Programs</td>
<td>22</td>
</tr>
<tr>
<td>Programs And Courses Program</td>
<td>222</td>
</tr>
<tr>
<td>Programs of Study</td>
<td>17</td>
</tr>
<tr>
<td>Psycholinguistics</td>
<td>173</td>
</tr>
<tr>
<td>Psycholinguistics Specialist Program</td>
<td>174</td>
</tr>
<tr>
<td>Psychology</td>
<td>239</td>
</tr>
<tr>
<td>Psychology And Its Applications Specialist (Co-operative) Program</td>
<td>247</td>
</tr>
<tr>
<td>Psychology Major Program</td>
<td>246</td>
</tr>
<tr>
<td>Psychology Minor Program</td>
<td>247</td>
</tr>
<tr>
<td>Psychology Specialist (Co-operative) Program</td>
<td>245</td>
</tr>
<tr>
<td>Psychology Specialist Program</td>
<td>244</td>
</tr>
<tr>
<td>Public Policy Major (Co-operative) Program</td>
<td>234</td>
</tr>
<tr>
<td>Public Policy Minor Program</td>
<td>232</td>
</tr>
<tr>
<td>Quantitative Analysis Specialist Program</td>
<td>266</td>
</tr>
<tr>
<td>Recreation Centre</td>
<td>14</td>
</tr>
<tr>
<td>Re-enrollment</td>
<td>300</td>
</tr>
<tr>
<td>Re-enrollment of Further Registration</td>
<td>319, 320</td>
</tr>
<tr>
<td>Registrar’s Office</td>
<td>15</td>
</tr>
<tr>
<td>Registrar’s Office Home Page</td>
<td>315</td>
</tr>
<tr>
<td>Registration</td>
<td>316</td>
</tr>
<tr>
<td>Regulations, Academic</td>
<td>314</td>
</tr>
<tr>
<td>Religion</td>
<td>254</td>
</tr>
<tr>
<td>Religion Major Program</td>
<td>254</td>
</tr>
<tr>
<td>Religion Minor Program</td>
<td>255</td>
</tr>
<tr>
<td>Requirements, Certificate in Business</td>
<td>17</td>
</tr>
<tr>
<td>Requirements, Degree</td>
<td>46</td>
</tr>
<tr>
<td>Residences</td>
<td>15</td>
</tr>
<tr>
<td>Retaking Courses</td>
<td>315</td>
</tr>
<tr>
<td>Rewriting Exams</td>
<td>326</td>
</tr>
<tr>
<td>ROSI</td>
<td>315</td>
</tr>
<tr>
<td>Scholarships</td>
<td>304</td>
</tr>
<tr>
<td>Admissions</td>
<td>312</td>
</tr>
<tr>
<td>Bursaries</td>
<td>313</td>
</tr>
<tr>
<td>Graduation</td>
<td>306</td>
</tr>
<tr>
<td>Science Engagement</td>
<td>257</td>
</tr>
<tr>
<td>Secondary Schools Pre-requisites</td>
<td>301</td>
</tr>
<tr>
<td>Selection, Course</td>
<td>315</td>
</tr>
<tr>
<td>Senior Administrators of UTSC</td>
<td>8</td>
</tr>
<tr>
<td>Session Dates</td>
<td>6</td>
</tr>
<tr>
<td>Sexual Harassment Education, Counselling and Complaint Office</td>
<td>15</td>
</tr>
<tr>
<td>Society and Environment</td>
<td>258</td>
</tr>
<tr>
<td>Society And Environment Major Program</td>
<td>258</td>
</tr>
<tr>
<td>Sociology</td>
<td>259</td>
</tr>
<tr>
<td>Sociology Major Program</td>
<td>260</td>
</tr>
<tr>
<td>Sociology Minor Program</td>
<td>261</td>
</tr>
<tr>
<td>Sociology Specialist (Co-operative) Program</td>
<td>260</td>
</tr>
<tr>
<td>Sociology Specialist Program</td>
<td>259</td>
</tr>
<tr>
<td>Special Consideration</td>
<td>326</td>
</tr>
<tr>
<td>Standing</td>
<td>319</td>
</tr>
<tr>
<td>Academic</td>
<td>319</td>
</tr>
<tr>
<td>In a Course</td>
<td>318</td>
</tr>
<tr>
<td>Overall</td>
<td>319</td>
</tr>
<tr>
<td>Statistics</td>
<td>266</td>
</tr>
<tr>
<td>Statistics Major Program</td>
<td>268</td>
</tr>
<tr>
<td>Statistics Minor Program</td>
<td>268</td>
</tr>
<tr>
<td>Strategic Management Specialist Program</td>
<td>194</td>
</tr>
<tr>
<td>Student aid</td>
<td>314</td>
</tr>
<tr>
<td>Student Housing</td>
<td>15</td>
</tr>
<tr>
<td>Student Life, Department of</td>
<td>11</td>
</tr>
<tr>
<td>Student Residences</td>
<td>15</td>
</tr>
<tr>
<td>Student Services</td>
<td>16</td>
</tr>
<tr>
<td>Academic Advising</td>
<td>12</td>
</tr>
<tr>
<td>AccessAbility Services</td>
<td>12</td>
</tr>
<tr>
<td>Athletics</td>
<td>14</td>
</tr>
<tr>
<td>Career Counselling</td>
<td>12</td>
</tr>
<tr>
<td>Child Care Centre</td>
<td>13</td>
</tr>
<tr>
<td>Financial Aid</td>
<td>13</td>
</tr>
<tr>
<td>Health &amp; Wellness Centre</td>
<td>13</td>
</tr>
<tr>
<td>International Student Centre</td>
<td>12</td>
</tr>
<tr>
<td>Physical Education &amp; Athletics – Recreation Centre</td>
<td>14</td>
</tr>
<tr>
<td>Registrar’s Office</td>
<td>15</td>
</tr>
<tr>
<td>Sexual Harassment Education, Counselling and Complaint Office</td>
<td>15</td>
</tr>
<tr>
<td>Student Life</td>
<td>11</td>
</tr>
<tr>
<td>Student Residences</td>
<td>15</td>
</tr>
<tr>
<td>University of Toronto Ombudsperson</td>
<td>14</td>
</tr>
<tr>
<td>University Police Services</td>
<td>14</td>
</tr>
<tr>
<td>Student Web Service</td>
<td>315</td>
</tr>
<tr>
<td>Students in debt to the University</td>
<td>314</td>
</tr>
<tr>
<td>Studies</td>
<td>299</td>
</tr>
<tr>
<td>Studio Major Program</td>
<td>290</td>
</tr>
<tr>
<td>Studio Minor Program</td>
<td>290</td>
</tr>
<tr>
<td>Study At Other Universities</td>
<td>320</td>
</tr>
<tr>
<td>Letters of Permission</td>
<td>321</td>
</tr>
<tr>
<td>Student Exchanges</td>
<td>322</td>
</tr>
<tr>
<td>Study Elsewhere Year</td>
<td>322</td>
</tr>
<tr>
<td>Subject POEs</td>
<td>17, 22</td>
</tr>
<tr>
<td>Supervised Reading/Research Courses</td>
<td>25</td>
</tr>
<tr>
<td>Suspension, Academic</td>
<td>319, 320</td>
</tr>
<tr>
<td>SWS</td>
<td>315</td>
</tr>
<tr>
<td>TCCard</td>
<td>314</td>
</tr>
<tr>
<td>Teacher Education</td>
<td>78</td>
</tr>
<tr>
<td>Teaching and Learning</td>
<td>10</td>
</tr>
<tr>
<td>Term work</td>
<td>326</td>
</tr>
<tr>
<td>Special Consideration in a Course</td>
<td>326</td>
</tr>
<tr>
<td>Term Work</td>
<td>326</td>
</tr>
<tr>
<td>Checking of Marks in a course</td>
<td>327</td>
</tr>
<tr>
<td>Petition of Marks in a course</td>
<td>328</td>
</tr>
<tr>
<td>Transcripts, Academic</td>
<td>324</td>
</tr>
<tr>
<td>Tuition</td>
<td>316</td>
</tr>
<tr>
<td>University of Toronto Policies</td>
<td>330</td>
</tr>
<tr>
<td>University Ombudsperson</td>
<td>14</td>
</tr>
<tr>
<td>University Police Services</td>
<td>14</td>
</tr>
<tr>
<td>Visiting Students</td>
<td>303</td>
</tr>
<tr>
<td>Visual and Performing Arts</td>
<td>270</td>
</tr>
<tr>
<td>WebOption courses</td>
<td>25</td>
</tr>
<tr>
<td>Withdrawal from Session</td>
<td>317</td>
</tr>
<tr>
<td>Women’s and Gender Studies</td>
<td>295</td>
</tr>
<tr>
<td>Women’s And Gender Studies Major Program</td>
<td>295</td>
</tr>
<tr>
<td>Women’s And Gender Studies Minor Program</td>
<td>295</td>
</tr>
<tr>
<td>Writing at U of T,Scarborough</td>
<td>9</td>
</tr>
</tbody>
</table>
From the 401 take the Morningside exit South to Military Trail.

Turn left on Military Trail, (the first lights South of 401).

Main Entrance and Drop-Off is on Military Trail, South of Ellesmere Road.

Long Term parking is in UTSC Parking or General Parking 4, North of Ellesmere Road.

Short Term and Visitor Parking is in Lot A, accessed from Main Entrance.
### 2011

<table>
<thead>
<tr>
<th>January</th>
<th>February</th>
<th>March</th>
<th>April</th>
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</thead>
<tbody>
<tr>
<td>S</td>
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