If somebody would give me about two dozen very old elm trees and about fifty acres of wooded ground and lawn — not too near anywhere and not too far from anywhere — I think I could set up a College that would put all the big universities in the shade.

Stephen Leacock

1994/95
Important Notices

College in Programmes of Study

The programmes of study described in the Calendar are available for the years 2003-04 unless otherwise indicated. For the 2004-05 academic year, the College will continue to offer the same programmes of study as those described in the Calendar. Any changes for the 2004-05 academic year will be announced in the Calendar. The College reserves the right to change the content of programmes of study or withdraw them, all reasonably possible advance notice and alternative programmes will be given. The College, however, will not be liable for any loss, damage, or other expenses that such changes might cause.

Changes in Courses

For each programme of study offered by the College, the courses necessary to complete the minimum requirements of the programme will be made available annually. The College reserves the right to change the content of courses, instructors, and instructional assignments, examination limitations, prerequisites, and corequisites, grading policies, and timetables without prior notice.

Changes in Regulations and Policies

The College has a number of policies that are approved by the Governing Council and which apply to all students. Each student must become familiar with the policies. The College reserves the right to change the content of programmes of study or withdraw them, all reasonably possible advance notice and alternative programmes will be given. The College, however, will not be liable for any loss, damage, or other expenses that such changes might cause.

To comply with the requirements of the University, the student must complete the necessary coursework and examinations in order to be eligible for graduation. The College reserves the right to change the content of programmes of study or withdraw them, all reasonably possible advance notice and alternative programmes will be given. The College, however, will not be liable for any loss, damage, or other expenses that such changes might cause.

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Important Notices

Calendar Limitations

The University reserves the right to alter the fees and other charges described in the Calendar.

Copyright in Course Lectures

If a student wishes to tape-record, photograph, video-record or otherwise reproduce lecture presentations, course notes or 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 physically disabled students, the instructor's consent will not be unreasonably withheld.

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 Records, strictly controls access to student numbers. The University assumes and expects that students will protect the confidentiality of their student numbers.

The University reserves the right to alter the fees and other charges described in the Calendar.

Separate Calendars are published by the St. George campus of the Faculty of Arts and Science and by Erindale College. Students are reminded that Scarborough College is a separate faculty of the University and that rules covering students registered at Scarborough College may differ from those in the Faculty of Arts and Science.

It is the responsibility of students to see that their academic programmes meet Scarborough College's regulations in all respects.

ACADEMIC OFFENCES ARE A SERIOUS MATTER. See page 352.

Scarborough College has a fire safety plan. Copies are available from Physical Plant Services (CS03).

Scarborough College has a No-Smoking Policy. Smoking is allowed only in the smoking lounge on the 4th level of the K Wing.

4 Calendar Limitations

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Scafiборough College, a constituent college of the University of Toronto, was established in 1964 to provide for the rapid growth in demand for undergraduate education lessons for the later 1960s. Since that time it has grown from a modest beginning of ten evening courses in a local high school to a thriving campus where 220 faculty teach more than 700 courses to 5200 students.

The first 191 full-time Scarborough students enrolled in 1965. Classes began on the University's St. George campus that fall and moved to the new Scarborough campus when the first building, made up of the Science and Humanities wings, opened in January 1966. The building, designed by Toronto architect John Andrews, won immediate international attention for its stunning architecture.

1973 saw the opening of both the W-wing which provided much needed additional classroom and office space, as well as a gymnastics and other sports facilities and the Student Village, a collection of townhome residences with room for 260 students. In 1985 the original Student Village was expanded and in 1990 the West Village which includes some wheelchair-accessible houses opened. A total of 536 students can now be accommodated in residence on the Scarborough Campus.

In 1970, the Victor W. Billson Library, named in memory of a former member of the Scarborough College faculty, was added to the W-wing. The library has more than 90,000 books, as well as thousands of maps and periodicals and a media centre with VTR tapes and fine art slides. The Soil Erosion Research Laboratory opened in 1989, the John Child Care Centre in 1990, and the Leighs Lee Browne Studio Theatre in 1993.

Scarborough is an integral part of the University's Faculty of Arts and Science. In 1972 the College became a separate arts and science division of the University of Toronto. This allowed it to become more independent in curriculum development. It was the first in the University to adopt a credit system allowing both full and part-time students to count their degree at a rate of their own choosing. The College offers the only formal co-operative programmes in the University. The programme in Administration was offered first in 1975. Since then co-operative programmes have been added in Arts Administration, in Computer Science and Physical Sciences, in Environmental Sciences, and in Social Development Studies. The Physical Sciences Specialist programs and the Arts of Teachers in French Specialist Programme have been redesigned and, in some cases, the Faculty of Education, and the Faculty of Education, for at least some programmes. Other special programmes include Neurosciences, Terrestrial and Aquatic Sciences, the Humanities and Women's Studies.

Beginning faculty research and the training of graduate students have flourished at Scarborough. They work with Scarborough faculty who make an important contribution to the School of Sciences through courses taught both here and at the St. George campus. The highly concentrated research facilities, the highly concentrated research facilities, the highly concentrated research facilities, and the diversity of the faculty foster an ideal environment for faculty and student research.

Scarborough students have full and up-to-date resources available on campus, such as the university library, computer and facsimile centers, residence and educational facilities, such as the Centre for Continuing Studies. As full members of the University of Toronto, take advantage of the resources of the University as a whole. On the Scarborough Campus, they can take part in or simply present seminars and drama presentations. Many distinguished guests come to the College to give lectures in the Snider series and the prestigious Wanni lecture has attracted such notable speakers such as Nobel Prize winner and former Prime Minister Lester Pearson, architect Raymond Moriyama, philosopher and theologian Hans Kung, scientist and television personality Dr. Neil Armstrong, leader Bob White and Assembly of First Nations chief George Eremusu.

Academic Calendar/Summer Session 1994

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 15</td>
<td>Last day for new students to apply for admission to the University for the Summer Session for courses beginning in May (Y, A, F and H courses).</td>
</tr>
<tr>
<td>April 4</td>
<td>Summer Session registration begins.</td>
</tr>
<tr>
<td>May 15</td>
<td>Last day for new students to apply for admission to the University for the Summer Session for courses beginning in July (B and S courses.)</td>
</tr>
<tr>
<td>May 16</td>
<td>Classes for Y, A, F and H courses begin.</td>
</tr>
<tr>
<td>May 20</td>
<td>Last day to add Y, A, F and H courses.</td>
</tr>
<tr>
<td>May 23</td>
<td>Victoria Day. University closed.</td>
</tr>
<tr>
<td>June 10</td>
<td>Last day to withdraw without academic penalty from A or F courses.</td>
</tr>
<tr>
<td>June 24</td>
<td>Last day of classes in A and F courses on the St. George and Erindale Campuses. Last day for submission of term assignments in St. George and Erindale Campuses courses. Final examinations in A and F courses on the St. George and Erindale campuses.</td>
</tr>
<tr>
<td>June 27-July 1</td>
<td>Reading Week for H and Y courses.</td>
</tr>
<tr>
<td>June 29</td>
<td>Last day of classes in A and F courses at Scarborough College.</td>
</tr>
<tr>
<td>June 30</td>
<td>Last day for submission of term assignments in these courses. Final examinations, if required, will be held in a class period of the last week.</td>
</tr>
<tr>
<td>July 1</td>
<td>Social contract. University closed.</td>
</tr>
<tr>
<td>July 4</td>
<td>Last day to add B or S courses.</td>
</tr>
<tr>
<td>July 8</td>
<td>Last day to withdraw without academic penalty from Y or H courses.</td>
</tr>
<tr>
<td>July 22</td>
<td>Last day to withdraw without academic penalty from B or S courses.</td>
</tr>
<tr>
<td>August 1</td>
<td>Civic holiday. University closed.</td>
</tr>
<tr>
<td>August 12</td>
<td>Last day of classes for Y, B, H and S courses on the St. George and Erindale campuses.</td>
</tr>
<tr>
<td>August 19</td>
<td>Last day of classes in Scarborough College.</td>
</tr>
<tr>
<td>August 21</td>
<td>Last day for submission of term assignments. Final examinations, if required, will be held in a class period of the last week. Last day to request conferment of degree at the Fall Convocation.</td>
</tr>
</tbody>
</table>

* For St. George deferred examinations see the Faculty of Arts and Science Calendar.
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 14</td>
<td>Last day for new students to apply for admission to the University for part-time studies</td>
</tr>
<tr>
<td>March 23</td>
<td>Classes for Y, A, F and H courses begin.</td>
</tr>
<tr>
<td>September 5</td>
<td>Labour Day. University closed.</td>
</tr>
<tr>
<td>September 12</td>
<td>Classes for Y, A, F and H courses begin.</td>
</tr>
<tr>
<td>October 10</td>
<td>Last day to add Y, A, F or H courses.</td>
</tr>
<tr>
<td>November 1</td>
<td>Last day to withdraw without academic penalty from F or A courses.</td>
</tr>
<tr>
<td>November 15</td>
<td>Christmas Examination Schedule published.</td>
</tr>
<tr>
<td>December 21</td>
<td>Christmas break. University closed.</td>
</tr>
</tbody>
</table>

### Spring 1994

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 2</td>
<td>Last day to add B and S courses begin.</td>
</tr>
<tr>
<td>January 10</td>
<td>Last day to withdraw without academic penalty from Y or H courses.</td>
</tr>
<tr>
<td>February 13</td>
<td>Reading Week - no classes held.</td>
</tr>
<tr>
<td>February 15</td>
<td>Last day to request confirm of degree at the June Convocation.</td>
</tr>
<tr>
<td>February 24</td>
<td>Last day to withdraw without academic penalty from B or S courses.</td>
</tr>
<tr>
<td>April 15</td>
<td>Annual Examination Schedule published.</td>
</tr>
<tr>
<td>April 7</td>
<td>Deferred examinations from December 1994.*</td>
</tr>
<tr>
<td>April 13</td>
<td>Good Friday. University closed.</td>
</tr>
<tr>
<td>April 17-23</td>
<td>Final examination period.</td>
</tr>
</tbody>
</table>

*For St. George Deferred examinations see the Faculty of Arts and Science Calendar.*
M. S. Irwin, M.A., Ph.D. (Toronto), Associate Professor (Engineering)
D. M. James, B.A. (Cornell), Ph.D. (Michigan), Associate Professor (Linguistics)
L. Lange, B.A., M.A. (Manitoba), Ph.D. (Toronto), Associate Professor (Sociology)
M. Luna, M.A., Ph.D. (Toronto), Associate Professor (Anthropology)
A. Savitz, B.A., M.A. (Windsor), Ph.D. (York, Canada), Associate Professor (Sociology)
K. England, B.A., B.C.C.E. (Leicester), M.A., Ph.D. (Ohio), Assistant Professor (Geography)
M. C. Geraghty, M.A., Western Ontario, Ph.D. (Toronto), Assistant Professor (English)
P. C. Hsiung, B.A. (National Chiao-tung University), M.A. (Chinese Culture University), M.A. (California), Ph.D. (California), Assistant Professor (Sociology)
F. Iacovetta, M.A., Ph.D. (York, Canada), Assistant Professor (History)
J. Mates, M.A. (Columbia), Ph.D. (Toronto), Assistant Professor (English)
P. Stempels, M.A., Ph.D. (Toronto), Assistant Professor (English)
D. McCarthy, B.A. (Toronto), Assistant Professor (Sociology)
C. Gabras, B.A. (Manitoba), M. Ed. (York), Lecturer
C. Brown, M.A. (New Mexico), B.F.A. (York, Canada), Senior Tutor (Fine Art Studio)
J. Hoppe, B.A. (Manitoba), Senior Tutor (Fine Art Studio)
Division of Life Sciences
Biologist
J. C. Ritchie, B.Sc. (Aberdeen), Ph.D. (Sheffield), D.Sc. (Aberdeen), F.R.S.C., Professor Emeritus
F. A. H. Paterson, B.A., M.A., Ph.D. (Toronto), Professor Emeritus
A. E. Weatherby, B.Sc. (Sydney), M.Sc. (Oxford), Ph.D. (Glasgow), Professor Emeritus
G. R. Williams, B.Sc., Ph.D., D.Sc. (Liverpool), F.R.S.C., Professor Emeritus
R. Throstra, B.Sc. (Calgary), Ph.D. (U.C.B.C.), Professor
J. D. Brown, B.Sc. (Carleton), Ph.D. (Texas), Professor Emeritus
B. C. Goddard, B.Sc. (Rhode), M.Sc. (Manitoba), Ph.D. (Massachusetts), Professor
W. J. Good, B.A. (McGill), Ph.D. (McGill), Professor
C. Wallis, B.Sc., Ph.D., D.Sc. (University College London), Professor
J. S. Silver, B.Sc., Ph.D. (CUNY), Professor
D. D. Williams, B.Sc. (University of New Wales), Dip.Ed. (Liverpool), M.Sc., Ph.D. (Waterloo), D.Sc. (Wales), Professor
J. H. Yoncon, B.A. (Victoria), M.Sc. (McGill), Ph.D. (Western), Professor
R. E. Dengler, B.Sc., Ph.D. (UCD), Associate Professor
J. M. Eade, B.Sc. (Western), M.Sc. (Queens), Ph.D. (B.C.), Associate Professor
M. E. Fox, B.Sc. (St. Peter's), M.Sc. (Fordham), Ph.D. (Princeton), Associate Professor
C. A. Hassenkamp, B.Sc. (Loyola), M.Sc., Ph.D. (Florida State), Assistant Professor
D. L. N. Baker (Queens), Ph.D. (Toronto), Assistant Professor
C. D. Riedesel, B.Sc. (North Carolina), Ph.D. (Florida State), Assistant Professor
N. M. Williams, B.Sc. (Queens), M.Sc. (Waterloo), Ph.D. (Toronto) Assistant Professor
C. Pickle, B.A. (M.T.A.), Senior Tutor
Psychology
J. Basillo, B.A. (McGill), Ph.D. (Cornell), Professor
G. B. Ederman, B.Sc. (CUNY), Ph.D. (NTU), Professor
C. Geitel, B.A. (McGill), M.A., Ph.D. (Wisconsin), Professor
K. W. D. B. W. (Wellesley), Ph.D. (Massachusetts), Professor
D. F. B. (Queens), Ph.D. (Toronto), M.A., Ph.D. (Michigan), Professor
J. J. Keeney, B.Sc., M.Sc. (Belfield), Ph.D. (Cornell), Professor
S. Nakagawa, B.A., B.M.A. (U.C.L.A.), Ph.D. (McGill), Professor
C. Musial, B.Sc. (McGill), Ph.D. (Washington), Professor
K. D. Murphy, B.A. (U.C.L.A.), M.A., Ph.D. (McGill), Professor
T. L. Pett, B.C., M.A. (Louisiana), Ph.D. (Florida), Professor
M. C. Smith, B.A. (Toronto), Ph.D. (MIT), Professor
G. O. Iy, B.A., D. Edw. (Drew), Ph.D. (Irvine), Professor
F. Klages, B.Sc. (McGill), M.A. (Toronto), Assistant Professor
T. L. P. D. (Montreal), M.D. (Toronto), Assistant Professor
R. A. Smith, B.Sc., Ph.D. (Toronto), Assistant Professor
M.A. Schmicker, B.A. (Sunny Belfast), Ph.D. (Cornell), Assistant Professor
S. E. Zemlin, D.S. (UALA), M.S. (CSU), Professor
J. M. Brown, B.A. (Florida), M.A. (Regina), Ph.D. (Toronto) Senior Tutor
Division of Management and Economics
Economics
A. Berry, B.A. (Western), Ph.D. (Princeton), Professor
J. Cohen, B.A. (Columbia), M.A., Ph.D. (California), Professor
K. K. Howson, B.A., M.Sc (London), M.A., Ph.D. (Cambridge), Professor
M. Kraskin, B.S. (B.C.), M.G.I., M. Phil., Ph.D. (Yale), Professor
B. Horton, B.A., M.A., Cambridge, Ph.D. (Harvard), Associate Professor
L. Parker, B.A. (Manitoba), M.A. (Toronto), Ph.D. (Yale), Associate Professor
M. Baker, B.Comm. (Toronto), M.A. (York, Canada), Ph.D. (Michigan), Assistant Professor
G. Cleveland, B.A. (Dalhousie), M.A., Ph.D. (Toronto), Assistant Professor
J. Lloydr-Ellen, B.Sc. (Southampton), M.A., Ph.D. (Queens), Assistant Professor
D. Telfer, B.A. (Toronto), M.A. (Cambridge), Ph.D. (University of California, L.A.), Assistant Professor
Management
O. Berman, B.A., M.S. (Tel Aviv University), Ph.D. (MIT), Professor
B. Borin, B.A. (Harvard), M.P. (Kennedy School of Gov.), Ph.D. (Harvard), Professor
J. B. Johnson, B.A. (York, Canada), M.A., Ph.D. (Toronto), Associate Professor
F. Donnelly, B.A., Ph.D. (MIT), Assistant Professor
J. Smyth, B.A. (California, Berkley), M.Sc. (Yale), Ph.D. (Toronto), Assistant Professor
M. C. Smith, B.A. (Toronto), Ph.D. (MIT), Assistant Professor
D. Keating, B.A. (U.B.C.), M.Sc. (London), Ph.D. (Harvard), Assistant Professor
J. J. X. Xie, B.A. (People's China), M.B.A., D. (Concordia, Assistant Professor
T. L. W. A. (Concordia), Assistant Professor
C. M. A. (Toronto), Assistant Professor
A. I. L. A. (York, Canada), M.A., Senior Tutor
A. S. A. (Toronto), M.A. (York, Canada), Assistant Professor
P. B. A. (Queen's), Tutor
Division of Physical Sciences
Astronomy
R. G. Carberg, B.Sc. (Saskatchewan), Ph.D. (Waterloo), Professor
C. Dyre, B.Sc., M.Sc., Ph.D., Professor
F. F. Kneberg, B.Sc., M.Sc., (Queen's), Professor
Chemistry
A. J. Knecht, B.A. (Cornell), Ph.D. (Illinois), F.R.S.C., Professor Emeritus
R. A. McClellan, B.Sc., Ph.D., Professor
R. Morris, B.Sc. (Waterloo), Ph.D. (U.B.C.), Professor
T. T. Watson, B.Sc. (Georgia Inst. Tech.), Ph.D. (Harvard), Professor
A. Walker, B.Sc., Ph.D. (Nottingham), Professor
D. J. Langdon, B.Sc. (Carleton), Ph.D (Carleton), Associate Professor
S. Fraser, B.A. (Oxford), Ph.D. (Cambridge), Associate Professor
K. Henderson, B.Sc., M. Eng., Senior Tutor
J. Potter, B.Sc. (Banbridge), M.Sc. (Windsor), Senior Tutor
A. Verner, M.Sc., M.Eng., Senior Tutor
W. Rentno, B.Sc., Senior Tutor
J. To B. B. E. (Singapore), Senior Tutor
M. E. Mitchell, B.Sc. (Guelph), Tutor
Computer Science
C. Dyer, B.Sc., Ph.D., Professor
W. H. Enright, B.Sc. (Bristol), M.Sc., Ph.D., Professor
J. van der Gougen, Ph.D. (Zurich), Professor
A. Amendt, B.A., M.S.E., M.A., Ph.D., Professor
S. B. (Princeton), Professor
V. Hadad, B.A., Ph.D., Professor
M. C. C. Smith, B.A. (York, Canada), M.A., Ph.D. (Toronto), Professor
H. H. S. (Hong Kong), Ph.D. (U.B.C.), Associate Professor
G. C. C. (U.C.B.C.), Associate Professor
N. Cheng, B.Sc., Senior Tutor
Environmental Science
R. E. Hay, B.A. (Dalhun), Ph.D. (Sheffield), Professor
N. Shibata, B.Sc. (Leicester), M.Sc. (N.F.L.), Ph.D. (East Anglia), Ph.D. (Leicester), Professor
B. Greenwood, B.Sc., B.Sc. (Bristol), Professor
J. A. C. E. B. E. (Reading), Ph.D. (Albany), Professor
K. W. Howard, B.Sc., M.Sc., Ph.D. (Nottingham), Professor
A. C. Price, B.Sc. (Wales), M.Sc., Ph.D., Professor
R. Fulthorpe, M.Sc., Ph.D. (University of Toronto), Assistant Professor
The Student Services are located in the basement of the Student Services Building, which houses the Student Services Centre, the Student Access Centre, the Student Health Centre, and the Student Financial Aid Office. The Student Services Centre is open Monday to Friday from 8:30 am to 4:30 pm, and is closed on weekends. The Student Access Centre is open Monday to Friday from 8:30 am to 4:30 pm, and is closed on weekends. The Student Health Centre is open Monday to Friday from 8:30 am to 4:30 pm, and is closed on weekends. The Student Financial Aid Office is open Monday to Friday from 8:30 am to 4:30 pm, and is closed on weekends. The Student Services Centre is the main entrance to the Student Services Building, and is located at the corner of University Avenue and University Street. The Student Access Centre is located on the first floor of the Student Services Building, and is accessible by elevator. The Student Health Centre is located on the second floor of the Student Services Building, and is accessible by elevator. The Student Financial Aid Office is located on the third floor of the Student Services Building, and is accessible by elevator. The Student Services Building is equipped with accessible facilities, including accessible washrooms, accessible entrances, and accessible exits. The Student Services Building is equipped with accessible parking spaces, accessible sidewalks, and accessible crosswalks. The Student Services Building is equipped with accessible public transportation stops, and is accessible by public transportation. The Student Services Building is equipped with accessible outdoor areas, including accessible parks, accessible playgrounds, and accessible beaches. The Student Services Building is equipped with accessible outdoor lighting, and is accessible by outdoor lighting. The Student Services Building is equipped with accessible outdoor features, including accessible benches, accessible picnic areas, and accessible outdoor sculptures. The Student Services Building is equipped with accessible outdoor activities, including accessible swimming, accessible boating, and accessible fishing. The Student Services Building is equipped with accessible outdoor events, including accessible concerts, accessible festivals, and accessible fairs. The Student Services Building is equipped with accessible outdoor resources, including accessible books, accessible newspapers, and accessible magazines.
Programmes of Study and Course Descriptions

The following Programmes are offered at Scarborough College:

All Programmes in Computer Science, Economics, Management, Political Science, all Co-operative Programmes, and the Specialist Programme in Neuroscience have strict enrollment limits. For details on application to the Programmes, see the appropriate discipline entry in this Calendar. In the event that the number of qualified applicants exceeds the teaching or other resources available, enrollment in other Programmes may have to be limited at a future date. In the event of under-enrolment, some of these Programmes may have to be withdrawn.

Specialist Programmes - Type of Degree

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Type of Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology</td>
<td>B.A./B.Sc.</td>
</tr>
<tr>
<td>Astronomy</td>
<td>B.A.</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>B.Sc.</td>
</tr>
<tr>
<td>Chemistry</td>
<td>B.Sc.</td>
</tr>
<tr>
<td>Cognitive Science</td>
<td>B.Sc.</td>
</tr>
<tr>
<td>Computer Science</td>
<td>B.Sc.</td>
</tr>
<tr>
<td>Computer Science &amp; Mathematics</td>
<td>B.Sc.</td>
</tr>
<tr>
<td>Computer Science &amp; Physics</td>
<td>B.Sc.</td>
</tr>
<tr>
<td>Computer Science &amp; Statistics</td>
<td>B.Sc.</td>
</tr>
<tr>
<td>Diversity Management / B.Sc.</td>
<td></td>
</tr>
<tr>
<td>Ecology &amp; Evolution</td>
<td>B.Sc.</td>
</tr>
<tr>
<td>Economics</td>
<td>B.A.</td>
</tr>
<tr>
<td>Economics &amp; Mathematics</td>
<td>B.A.</td>
</tr>
<tr>
<td>Environmental Chemistry</td>
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<td>Environmental Earth Science</td>
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<td>Fine Art History</td>
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<td>Fine Art Studio</td>
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<td>French</td>
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<td>Education of Teachers in French</td>
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<td>Geography</td>
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<td>Modern Languages</td>
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<td>Neuroscience</td>
<td>B.Sc.</td>
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</tbody>
</table>

Programmes of Study and Course Descriptions 17

Major Programmes ** - Type of Degree

| Philosophy                  | B.A.           |
| Physical Sciences           | B.Sc.          |
| Political Science           | B.A.           |
| Psychology                  | B.Sc.          |
| Sociology                   | B.A.           |

Minor Programmes ** - Type of Degree

| Anthropology                | B.A./B.Sc.     |
| Astronomy & Physics         | B.Sc.          |
| Biochemistry                | B.Sc.          |
| Biological Sciences         | B.Sc.          |
| Chemistry                   | B.Sc.          |
| Classical Studies           | B.A.           |
| Cognitive Science           | B.Sc.          |
| Drama                       | B.A.           |
| Economics                   | B.A.           |
| English                     | B.A.           |
| Environmental Science       | B.Sc.          |
| Fine Art History            | B.A.           |
| Fine Art Studio             | B.A.           |
| French Language             | B.A.           |
| French Language & Literature| B.A.           |
| Geography                   | B.A.           |
| German Language             | B.A.           |
| History                     | B.A.           |
| International Development Studies | B.A./B.Sc. |
| Italian Language            | B.A.           |
| Linguistics                 | B.A.           |
| Mathematical Sciences       | B.Sc.          |
| Music History & Literature  | B.A.           |
| Neuroscience                | B.Sc.          |
| Philosophy                  | B.A.           |
| Political Science           | B.A.           |
| Psychology                  | B.Sc.          |
| Sociology                   | B.A.           |
| Spanish Language            | B.A.           |
| Women's Studies             | B.A.           |

College Programmes - Type of Degree

| Humanities                  | B.A.           |

Co-operative Programmes - Type of Degree

| Administration              | B.A.           |
| Arts Administration         | B.A.           |
| International Development Studies | B.A./B.Sc. |
| Computer Science & Physical Science | B.Sc.    |
| Environmental Science       | B.Sc.          |

Co-operative Programmes are work-study Programmes which are designed to integrate related, practical experience with regular university studies. All Co-operative Programmes are Specialist Programmes and may be taken only as part of a four-year degree. Most Co-operative Programmes, however, will require up to five years to complete because of the time required for the work placements.
General Interest Courses

The following is a list of courses which are of a general nature and are designed to appeal to all students within the College. Please consult the discipline entry in the Calendar for course descriptions.

Cultural Policy
Great Moments in Astrology
Environmental Biology
Theoretical Foundations of Biology I
Theoretical Foundations of Biology II
Civilization
Greek and Roman Mythology
Computer Basics: Fundamental Concepts and Terminology
Geological Hazards
Reading Literature: The 20th Century
American Literature
The Canadian Short Story
The Short Story
Women and Literary Study
Why is it Art?
Twentieth Century Art
Women and Literature in France
The Last Hundred Years
Modern Greek Music
The Eastern World
History of Africa since 1800
Black Canadian History
Prologue II
Italian Cinema
Introduction to Management
Listening to Music
Music of the World's Peoples
Music for the Theatre
Jazz
Performing Arts of Asia
The Classical Music and Culture of North India
Dynamics of Classical Systems

Electromagnetism and Solid State Devices
The Civilization of Spain

Anthropology (B.A./B.Sc.)

Discipline Representative: TBA

Anthropology is the study of human nature and its development and evolution. Students who have completed at least eight full-course equivalents in disciplines other than Anthropology within the four-year degree program, with the Programs to be selected as follows:

1. ANT100Y Introduction to Anthropology
2. At least two full-course equivalents from the following: ANT151Y Biological Anthropology
   ANT201Y Social and Cultural Anthropology
   ANT211F Introduction to World Prehistory 1
   ANT212S Introduction to World Prehistory 2
   ANT213S Introduction to World Prehistory 3
   Six full-course equivalents from the remaining B.C. or D-level courses in Anthropology at least two of which must be at the C or D-level. Students are encouraged to take at least one course in field methods, such as ANT311G and C301. In exceptional circumstances supervised research and reading courses are available at the C level. (ANT500F, C506S) and D level (ANT501F, C502S). See the descriptions for these courses below, as restrictions apply.
   At least two full-course equivalents in disciplines other than Anthropology must be agreed upon in consultation with the Supervisor.

Major Programmes in Anthropology

Supervisor: L. Sawchuk (287-7347)

The Major Programmes in Anthropology provide 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.

The Programme requires completion of six full-course equivalents in Anthropology including:

1. ANT100Y Introduction to Anthropology
2. At least two full-course equivalents from the following: ANT151Y Biological Anthropology
   ANT201Y Social and Cultural Anthropology
   ANT211F Introduction to World Prehistory 1
   ANT212S Introduction to World Prehistory 2

Three or more full-course equivalents from B.C. or D-level courses in Anthropology, at least one of which must be at the C or D level.

Students are required to consult with the Supervisor regarding course selections, Identification of potential interdisciplinary streams (sociocultural, physical, anthropological), and course requirements.

ANT101Y Introduction to Anthropology

Telephone: D. # 007-1063

An introduction to the fields of anthropology through which the student will obtain the anthropological view of the nature and diversity of human. The first term deals with Physical Anthropology and Prehistoric Archaeology, concentrating on the biological basis and the evidence for the origins and growth of culture. The second term covers the nature of language and the comparative aspects of Cultural Anthropology, through a study of social groups as well as economic, political and religious systems in both non-industrial and industrial societies. Lectures and tutorials.

Exclusion: ANT100

Seminars; Winter Session; J. Thompson, M. Lambe, TBA
ANTIBOS The Americas: An Anthropological Perspective
Telephone ID #: 00720456
The origins and development of native cultures in the New World, with particular emphasis upon changes due to European contact. Special emphasis will be placed on social dynamics and focus on Latin America.
Pre-requisite: ANTC37 (ANTIB37) is recommended.
Session: Winter Day
R.W. Shirley

ANTIBOT Introduction to Archaeological Materials
Telephone ID #: 00720456
An introduction to the study of prehistoric and historic archaeological materials including ceramics, lithics, metal and fossil bone. Students will carry out analyses on samples of artifacts, learning about their construction, their functions and their development through time. These studies will lead to consideration of the survival and importance of "traditional" technologies in both developing and developed modern countries.
Exclusion: ANTID35
Pre-requisite: ANTA01, ANTIC26 is recommended as a co-requisite.
Session: Winter Day
M. Lantos

ANTIBOS African Cultures and Societies I: Survey
Telephone ID #: 00720353
A study of contemporary and traditional African peoples, their cultural backgrounds and historical interactions. Lectures and readings will provide an overview of African social institutions, religious beliefs and ritual, political and economic organization, colonial and post-colonial experience, and current problems.
Pre-requisite: ANTA01 or permission of instructor.
Session: Winter Day
M. Lambek

ANTIBOT Comparative Slavery
Telephone ID #: 00720353
An examination of slavery as an institution in several areas of the world, including Israel, Africa, the Caribbean, and the United States. An effort will be made to examine the modern consequences of slavery as well.
Pre-requisite: ANTA01
Session: Winter Day
R.W. Shirley

ANTIBOSY Social and Cultural Anthropology
Telephone ID #: 00722056
Basic approaches to the understanding of social and cultural organization in societies of varying complexity but with emphasis on simpler societies. Comparative social institutions, especially kinship and marriage will be examined along with economic, political, legal and ritual elements. Some attention will also be given to belief systems and symbolic thought as well as sources of stability and change in society and anthropological perspectives on current social issues.
Exclusion: ANT204
Pre-requisite: ANTA01 or permission of instructor.
Session: Winter Day, Summer Evening
R.W. Shirley, TBA

ANTIBOSY Primitive Behaviour
Telephone ID #: 00722056
A general introduction to the lifeways of non-human primates. Because studying non-human Primates depends on the ability to record accurately what has occurred, emphasis is placed on observation and recording. Readings and lectures develop the context in which observations are analyzed. Tools of recording and analysis are practiced and presented in seminars.
Exclusion: ANTC22
Pre-requisite: ANTA01 or ANTIB15 or PSYA01 or BIO403
Session: Winter Day
F.D. Burton

ANTC05F and ANTCC05 Directed Reading in Anthropology
Telephone ID #: 00730353 and 00730453
A directed exploration of specific topics in Anthropology, based on extensive investigation of the literature. These courses are available in exceptional circumstances and do not duplicate regular course offerings. Students are advised that they must obtain consent from the supervising instructor before registering. Individual tutorials, as arranged. In addition to coursework to be decided by the instructor, one seminar presentation of the student's research findings is required.
Pre-requisite: ANTA01 and one B-level full-course equivalent in Anthropology and permission of instructor.
Session: Winter Day, Winter Evening, Summer Evening
Members of Faculty

ANTC105 Anthropological Perspectives of Development
Telephone ID #: 00731053
The concept of development is compared with descriptions of the impact of Western rule and influence, such as "modernization", "acclimatization" and "Cultural change", and related to more recent theories of "underdevelopment" and "world systems". An anthropological view of non-Western societies is emphasized as a basis for understanding the context in which development occurs. Deteriorization, labour migrations, urbanization and problems of adjustment to change are examined from the perspective of indigenous forms of social organization and systems of religions and ideology.
Exclusion: ANTB17
Pre-requisite: ANTA01
Session: Winter Evening
TBA
ANTC11A The Anthropology of Women and Gender
Telephone ID: 00731113
A cross-cultural examination of sex roles and gender constructs with their implications for the position(s) of women in contemporary and traditional societies. The course explores how and why sociocultural systems based on sexual inequality originate, how they maintain themselves, and how they change. Topics include: biological foundations and constraints; cultural interpretations of femininity and masculinity seen in myth, ritual, metaphor and other imagery; economic and political aspects of gender relations, especially sexuality and reproduction; differences and similarities between small scale and complex societies. 
Exclusion: ANTC12
Prerequisite: ANTA01 or WIST01 or permission of instructor. ANTB20 is highly recommended.
Source: Winter Day, accelerated course (full year course completed in one term)
J. Budry

ANTC125 Research on the Social Behaviour of Non-Human Primates I
Telephone ID: 00731253
The purpose of this course is to study two forms of monkeys under very different circumstances: in Kibale the monkeys are hybrid musciceous; living near humans in crowded reserves, and those around the mountain in a national forest, where acrocomia is just beginning. Observation is conducted with a focus on transcription and analysis. There are guest lectures from local ethologists and wildlife conservators. Evaluation: as ethnogram; full notes; log book; field trip; presentation; essay. This field trip begins in February and lasts for 10 days (including Reading Week). An additional of approximately $2000, depending on location, (currently China) will be charged to cover travel and accommodation costs. Students must arrange for instructor's permission and make a deposit by 1 November. Further agricultural information, contact Professor F.D. Burton (tel. 287-2549560). Enrolment is limited to 10.
Source: Winter Day, accelerated course (ANTC22) and permission of instructor.
J. Budry

ANTC15V Human Origins
Telephone ID: 00735163
The study of human origins has undergone a transformation in recent years. The science has benefited from a series of unexpected fossil discoveries, and it has become willing to look at new approaches to answering major issues surrounding human evolution. There is much more information on the ways of knowing in past, as there is now greater agreement in the predictions being made. This course will examine some of these, particularly the process of speciation, with specific reference to the emergence of Homo. The evolution of fossil (cranium) will be examined, there will be emphasis on the interpretations of the process of hominisation through the thought and writings of major workers in the field. Topics are set within their fossil and time contexts and include the emergence of bipedalism and the development of language and the origin of consciousness. Two hours of lectures, two hours of lab. Exclusion: ANTC322
Prerequisite: ANTA01 or permission of instructor.
Session: Winter Day
J. Thompson

ANTC205 The Theory and Practice of Archaeology: An Introduction
Telephone ID: 00732063
A survey of the anthropological sub-discipline which is concerned with human socio-cultural development during the past 12,000,000 years. The course reviews the sites, methods and practices. While in archaeology in both the New and Old Worlds. This course will be offered approximately $2000, depending on location, (currently China) will be charged to cover travel and accommodation costs. Students must arrange for instructor's permission and make a deposit by 1 November. Further agricultural information, contact Professor F.D. Burton (tel. 287-2549560). Enrolment is limited to 10.
Source: Winter Day, accelerated course (ANTC22) and permission of instructor.
J. Budry

ANTC225 Political Anthropology
Telephone ID: 00732255
A general survey of the role of political systems in a largely developed framework. 
Exclusion: ANTC15
Prerequisite: ANTA01 or permission of instructor.
Session: Winter Day

ANTC25F Quantitative Methods in Anthropology
Telephone ID: 00735533
A consideration of quantitative data and analytical goals, especially in archaeology and physical anthropology. Some elementary computer programming, and a review of programming packages suitable for anthropological analysis will be included. Exclusion: ANTB43), ECBO11, PSTB70, SOC206
Prerequisite: ANTA01 and ANTB15 and ANTB20 are recommended.
Session: Winter Day
L. Savcuch

ANTC37F Prehistory of Mexico and Mesoamerica
Telephone ID: 00737733
An attempt to understand the development and achievements of the civilizations of Mexico. We will consider the two main problems: the beginnings of agriculture and its effects on culture, and the forces which contribute to the emergence or disappearance of civilization. Students will become familiar with the art, crafts and architectural styles of the known sites which symbolize the civilizations of this region.
Exclusion: ANTB37
Prerequisite: ANTA01 and ANTB3F and ANTB35 are recommended.
Session: Winter Day
M. Latt

ANTC350 Death and Burial
Telephone ID: 00735053
The problem of death and suitable treatment of the dead became a human concern by the late mesolithic and in the important component of all human cultures today. To the anthropologist, burial is an important symbol of culture. For the archaeologist, burial is the most important because they are intentional depositional, intended for preservation into the future of otherwise lost complex symbolic systems. A selection of ethnographic studies of burial practices will lead to an evaluation of the way in which activities are assimilated into the archaeological record. Next, we will examine archaeological data to compare the nature of symbolic response to death with an important social and economic cultural processes including the rise of horticulture, urbanization and the development of social stratification. 
Exclusion: ANTB30
Prerequisite: ANTA01 and ANTB15 and ANTB20 are recommended.
Session: Winter Day
H.B. Schröder

ANTC15F Medical Anthropology: Illness and Healing in Cultural Perspective
Telephone ID: 00734333
This course examines illness, health, and healing concepts from a cross-cultural perspective. It is composed of three parts: (1) the description and analysis of nonwestern ideas and practices; (2) the culture of North American illness and medical practice in the United States; and (3) the development of culturally informed and socially responsible responses to health problems in the Third World and at home. The course considers topics such as: the historical and symbolic trajectory of medical institutions, biomedicine, culture, and healing in diverse societies; the impact of biomedicine and biotechnics on local health practices; the role of the health professions in creating, perpetuating, and exhibiting class and ethnic differences in health; the role of the biomedical industry in the dissemination of technology; and the role of the medical professionals and the medical establishment in the perpetuation of social inequality. 
Source: Winter Day
G. F. Burton

ANTC350 Fieldwork in Social and Cultural Anthropology
Telephone ID: 00730033
This course describes social and cultural anthropologists collect data and construct theory in the course of fieldwork. Students will be introduced to the fieldwork experience, the nature of the participant-observation method, the role of the anthropologist, and the role of the participant-observer in the society. We will also consider such phenomena as field work experience, personal experience and the role of the participant-observer in the society. Further information, contact Professor F.D. Burton (tel. 287-2549560). Enrolment is limited to 10.
Source: Winter Day
H. B. Schröder
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
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<tr>
<td>ANTD11F</td>
<td>Advanced Research in Anthropology</td>
<td>D. Lambeth</td>
</tr>
<tr>
<td>ANTD22S</td>
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Astronomy

Introduction to Astronomy
Telephone ID: 01110505
A description of the solar system, sun, stars, galaxies and other phenomena of the cosmos. The course will also explore some of the nature and evolution of our solar system, star systems, galaxies and the universe as a whole. The course will be presented in a manner suitable for both the science and non-science student. Method and techniques for exploring the universe are described, including the recent use of radio telescopes and telescopes on spacecraft. Two lectures and two tutorials per week.

Astronomy (B.Sc.)

Discipline Representative: R. Carberry (287-7205)

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 we live. The search for understanding the universe in which we live is a sustained discovery, including the work of our own galaxy. Students will have the opportunity to observe and photograph these celestial bodies if they wish.

Exclusions: AST104, 120, 200

Session: Winter Day

AST104 Great Moments in Astronomy
Telephone ID: 01120333
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 how their ideas have revolutionized our understanding of nature and the universe. Implications of the revised outlook are also discussed. This course will focus on the first measurements of celestial distances; the prediction of the existence of Neptune; the discovery of the nature of stars; the search for the existence of "small universes"; the birth of the theory of cosmic inflation; the discovery of the cosmic particle; and the expansion of the universe. The perspective gained is used to assess current astronomical research and its impact on society.

The course is intended primarily for students not in Physics Science who, in their second or higher years, wish to acquire an understanding of the origins and significance of our place in the universe. A term paper dealing in detail with an aspect of the topics is required.

Exclusion: AST210

Prerequisite: Four full-course equivalents

Session: Winter Evening

AST210 Celestial and Classical Mechanics
Telephone ID: 01120503
This course considers classical mechanics with particular emphasis on origins and applications in celestial mechanics, particularly the study of the motions of bodies in planetary systems. Topics will include central force laws, Kepler's Laws, conservation laws, Lagrange's equations, and an introduction to Hamiltonian mechanics.

Prerequisite: AST205, MAT292Y, CO21.1
Corequisite: MATB31F, MATB42S, PHYS315

AST210H Research Topics in Astronomy
Telephone ID: 01120513
Application of individual effort to reading and research on a topic of current interest. Research on some topic of current interest in astrophysics and write a report ("master's") on their work. The student is expected to gain an appreciation of the current state of research on a particular topic of astrophysical interest and to become familiar with the basic methods of research in the topic. The topic will be selected by one of the instructors in consultation with the student. Formal lectures are replaced by regular consultation between the student and instructor. It is expected that at least 80 hours of work will be done during the year, following which the master's thesis is submitted to the instructor. For more information, see Professors Dyer and Krennberg. 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: AST245

Prerequisite: AST103 or 322; PHYS215, permission of instructor

Session: Winter Day
more complicated due to the solid or liquid state of matter in these objects.

Biology

Program: A:SA03, BST50F, \textit{Biology}

Preparatory: MAT34F, MAT42S, Physics

Note: ATSC50 and ATSC51 will be offered in alternate years. The order that these courses are taken in a program is determined solely by their alternating years of offering.


courses Not Offered 1994/95

ATSC51: Stellar Systems, Galaxies, and Cosmology

Preparatory: A:SA51T, AST55F, MAT55T

Corerequisites: MAT434F, MAT435S, PHY42C2S

Biology (B.Sc.)

Associate Chair: T.B.A.

From its early beginnings as a descriptive science, biology has developed, particularly in the last few decades, into a sophisticated experimental science employing other basic sciences such as chemistry, physics, and mathematics. Modern biology includes the study of structure and function of all living organisms, including man. Within biology various core areas may be distinguished: morphology and structure (anatomy), taxonomy, physiology, biochemistry, genetics and evolution, and ecology. In addition to their fundamental significance, certain of these areas are central to understanding and solving many problems currently confronting mankind.

Five Programs in Biology are offered. (1) Three Specialist Programs: for students wishing to concentrate in the biological sciences. This Program covers core areas of Biology and requires a number of courses in cognate disciplines. (2) The Major Programme: for students primarily interested in Physical Science, Social Science, Management and Economics or Humanities who also have an interest in Biological Sciences. Supervisors and other staff members should be consulted if you are unsure about your Program in Biology, or the year-in-year-out sequence of courses.

Major Programme in Biological Sciences

Supervisor: C. Pickett (Office 5517)

This Programme must include the following 14 full-course equivalents of which at least one must be at the Plant Science level (see Major Programme for a list of Plant Science courses). Three must be at the C, or D level (0.5 must be at the D level). Note that courses at the B, C, or D levels may be taken in any year after the first, subject to the fulfillment of the necessary prerequisites. Courses with an * can be used to fulfill this requirement in only one group.

1. BIOA03Y (BIBIOA05S cannot be substituted for BIOA03Y in this programme)

2. Structure and Diversity, BIOB25P*, BIOB38P*, BIOB38F

3. Physiology and Biochemistry, BIOB25P*, BIOB38P*, BIOB38F


5. Cells and Molecular Biology, BIOB03Y, BIOB03Y

6. All full-course equivalents in Biology (up to 14 full-course equivalents) are of equal weight in computing this requirement.

7. Three full-course equivalents in cognate disciplines: CEM40Y or PHY101 and PHY111 or MATA2Y

8. One full-course equivalent from Humanities or BI0C70P*

9. It is recommended that Biology Majors take a course in Computer Science such as CSCA041S or CSCA045S or CSCA045S.

** ** BIOB28P and BIOB38P cannot be used to fulfill both requirements 6 and 8.

Specialist Programme in Biological Sciences

Supervisor: C. Pickett (Office 5517)

This Programme must include the following 14 full-course equivalents of which at least one must be at the Plant Science level (see Major Programme for a list of Plant Science courses). Three must be at the C, or D level (0.5 must be at the D level). Note that courses at the B, C, or D levels may be taken in any year after the first, subject to the fulfillment of the necessary prerequisites. Courses with an * can be used to fulfill this requirement in only one group.

1. BIOA03Y (BIBIOA05S cannot be substituted for BIOA03Y in this programme)

2. At least one full-course equivalent in Structure and Diversity, BIOB25P*, BIOB28P, BIOB38P*, BIOB38F

3. At least one full-course equivalent in Physiology and Biochemistry, BIOB03Y, BIOB03Y, BIOB03Y, BIOB03Y, BIOB03Y, BIOB03Y, BIOB03Y

4. At least one full-course equivalent in Ecology and Evolution, BIOB25P, BIOB38P, BIOB38F

5. At least one full-course equivalent in Cells and Molecular Biology, BIOB03Y, BIOB03Y

6. At least one full-course equivalent in Communications, BI0C70P*

7. At least one full-course equivalent in Humanities or BI0C70P*

8. At least one full-course equivalent in Computer Science such as CSCA041S or CSCA045S or CSCA045S.

9. ** BIOB28P and BIOB38P cannot be used to fulfill both requirements 6 and 8.

Specialist Programme in Cellular and Molecular Biology

Supervisor: T.B.A.

This programme must include the following 14 full-course equivalents of which at least one must be at the Plant Science level (see Major Programme for a list of Plant Science courses). Three must be at the C, or D level (0.5 must be at the D level). Note that courses at the B, C, or D levels may be taken in any year after the first, subject to the fulfillment of the necessary prerequisites. However, CEM40Y or PHY101 and PHY111 are strongly recommended for the second year for students who plan to take Biochemistry.

1. BIOA03Y (BIBIOA05S cannot be substituted for BIOA03Y in this programme)

2. Five full-course equivalents from the following:
   - BIOB03Y, BIOB03Y, BIOB03Y, BIOB03Y, BIOB03Y
   - BIOB03Y, BIOB03Y, BIOB03Y, BIOB03Y, BIOB03Y
   - BIOB03Y, BIOB03Y, BIOB03Y, BIOB03Y, BIOB03Y
   - BIOB03Y, BIOB03Y, BIOB03Y, BIOB03Y, BIOB03Y
   - BIOB03Y, BIOB03Y, BIOB03Y, BIOB03Y, BIOB03Y

   From the above which are not used to fulfill the requirement of the five full-course equivalents in category 2 may be used to fulfill the requirement of three full-course equivalents in category 3 below.

3. Three full-course equivalents from the following:
   - BIOB03Y, BIOB03Y, BIOB03Y
   - BIOB03Y, BIOB03Y, BIOB03Y
   - BIOB03Y, BIOB03Y, BIOB03Y
   - BIOB03Y, BIOB03Y, BIOB03Y
   - BIOB03Y, BIOB03Y, BIOB03Y

   Courses from the following St. George offerings may be taken to satisfy 1.5 full-course equivalents of the 3 full-course equivalents required for this category: HUM351Y, HUM352Y, JMB334Y, any MPL400 series course, any SC1440 series course, or any MATA2Y. Students who wish to enroll in courses offered on the St. George campus should note that entry into many of these courses will be by ballot.

4. Four full-course equivalents in cognate disciplines:
   - CEM40Y
   - CEM445Y
   - PHY101 or PHY106
   - MATA2Y

5. One full-course equivalent from the Biology course offerings at Scarborough Campus not listed above. BIOB03Y and BIOB04Y are recommended.

6. It is strongly recommended that students take a statistics course.
For those interested in pursuing theoretical ecology, an additional MAT course should be considered.

A computer science course, CISC4295 or CISC4005 or CISC4755, is recommended.

BIO436Y Introductory Biology

**Telephone ID**: 01310563

This course is designed for students who intend to pursue further courses in Biology or other Natural Sciences. It offers a thorough consideration of basic biological concepts as they pertain to both plants and animals of life. Specific topics include: the chemical structure and function, inheritance, the structure and function of organs, cellular processes, mechanisms of development, cellular metabolism, photosynthesis, molecular basis of muscle contraction, nervous system, physiology, plant hormones, evolution, basic ecology.

Two one-hour lectures and one one-hour laboratory per week.

Exclusions: BIO2060, BIO1050
Prerequisite: CISC1005 Session: Winter Day M. F. Field

BIO4807 Plant Physiology

**Telephone ID**: 01312053

A basic lecture and laboratory course on the general physiology of plant growth and development. Plants and animals employ fundamentally different strategies for assimilating nutrients and coping with a changing and sometimes hostile environment. The objectives of this course are to familiarize the student with the physical limitations with which plants must cope, and with the strategies that plants use to coordinate their growth and development with their changing physical surroundings. Specific topics will include water and salt uptake and translocation, water loss, mineral nutrition, carbohydrate, protein and lipid metabolism, photosynthesis and respiration, and coordinated growth and development. How biochemistry, physiologal, cellular and molecular techniques contribute to our understanding of a plant's physiology will be considered.

Two one-hour lectures and one one-hour laboratory per week.

Exclusions: BOT1022Y, BOT1322Y
Prerequisite: BIOA03 Session: Winter Day T. A. A.

BIO4817Y Fundamentals of Ecology

**Telephone ID**: 01321253

The scientific study of the interactions that determine the distribution and abundance of organisms. A course intended to promote the development of an ecological conscience.

Importance of evolution in ecology; factors limiting the distribution of organisms such as adaptation, dispersal, attributes of populations; population estimation, life table analysis, estimation of the innate capacity for increase, and population growth; species interactions: competition and predation; theories of population regulation; attributes of communities; changes of the community, species diversity, community patterns and classification, succession and climax; concept of the ecosystem; biosphere of the world; community energetics, community nutrition; other topics of general ecological interest.

Two one-hour lectures and one one-hour laboratory per week.

Exclusions: ZLO1221Y, BOT1330H
Prerequisite: BIOA03 or EESA4075 Session: Winter Day R. Bosma

BIO4814F Environmental Biology

**Telephone ID**: 01312143

A course designed to explore the biological consequences of major selected problems facing Canada and the world which are a direct consequence of human activities. Each of the problems addressed will deal with the causes, the effects, and the potential solutions. A short introduction section in the course will discuss a number of ecological principles that apply to communities in order to set the stage for interpreting the implications of these problems. The following will be among the topics discussed: sustainable development, the pesticide problem, the acid rain problem, the potential impact of increasing carbon dioxide levels on world climate, conservation and extinction of plants and animals, deforestation of the tropics and the human population problem.

Two one-hour lectures per week, plus one-two hour tutorial every week.

Prerequisite: BIOA03 or BIO122 or permission of instructor Session: Winter Day R. Bosma

BIO4817Y Animal Physiology

**Telephone ID**: 01321170

This course is a corequisite in course in animal physiology dealing with the function of cells and organs in highly evolved multicellular animals such as vertebrates and arthropods. The first term covers the purely "vegetative" physiological functions which keep the animal alive such as nutrition, temperature control, gas exchange, heat transport, circulatory, excretion and osmoregulation. The second term covers "regulatory" physiology which controls and co-ordinates the functioning of the body such as nerve impulse conduction, synaptic transmission, muscle structure and
function, neuromuscular systems, sensory receptors and hormones. Two one-hour lectures and one three-hour laboratory per week.
Exclusion: ZOO22Y
Prerequisite: BIAO03
Session: Winter Day
C. K. Groved

**BIO322Y** Developmental Biology

Phone ID: 01322163

The study of morphological change and underlying molecular and cellular processes which occur during the life history of an organism. An analysis of development in a variety of multicellular organisms. Particular reference will be given to the concept that regulation of gene activity is fundamental to development. In the Fall term and the first half of the Spring term the principles of animal development are dealt with. The following model systems are employed: bryophytes, ferns, lycophytes, angiosperms, frog metamorphosis and carcinogenesis. In the last half of the second term aspects of plant development will be discussed. Topics will include: seed germination, maturation and hormonal and environmental effects on plant development.

One two-hour lecture and one three-hour laboratory per week.
Exclusion: ZOO22Y
Prerequisite: BIAO03
Session: Winter Day
J. R. Brown and C. D. Riggs

**BIO252F** Vertebrate Histology: Cells and Tissues

Phone ID: 01322553

The structure of cells and the various tissue types which make up the vertebrate body: epithelial, connective, muscle, nervous, blood, and lymphatic. A special emphasis on their involvement in form and function.

Two one-hour lectures and three hours of laboratory per week.
Exclusion: ZOO249
Prerequisite: BIAO03
Session: Winter Day
J. H. Youzen

**BIO325F** Comparative Morphology of Fungi, Algae and Bryophytes

Phone ID: 01322193

A survey course of the major groups of fungi and algae. Emphasis will be on selected topics in marine biology with particular emphasis on the course work in the Caribbean. This course will be held during the field stations in the Caribbean and will have a considerable practical component. Prior to field work, there will be a series of lectures on the origins of the oceans, waves, tides and currents; and the biology of marine organisms, at Scroogeshore. 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 enrollment: 15.
Exclusion: BIO301
Prerequisite or co-requisite: BIO296F and permission of instructor
Session: Winter Evening
D. S. Williams

* As this course is often oversubscribed, interested students must contact the instructor well in advance of the start of the fall term 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.

**BIOC185** Microbes in the Environment

Phone ID: 01311853

This microbial ecology course will examine relationships between microorganisms: algae, bacteria, fungi and viruses, and their environments. Abiotic factors of major importance to microorganisms will be discussed; pH, redox potential, temperature, radiation, pressure, and water activity. Interactions among microbial populations, as well as between microorganisms and plants, and microorganisms and animals, will be examined in detail. This will be followed by an examination of microbial communities in their normal habitats: air, water, and soil.

Prerequisite: BIO202 or BIO12
Session: Winter Day
C. Niedzwieki

**BIOC139** Limnology

Phone ID: 01310933

Limnology, a branch of ecology which deals with lakes, may be defined as the study of relationships between organisms in a lake, and of interactions between organisms and their environment. The structure and function of normal lake ecosystems will be examined with the objective of gaining insight into responses of lakes to man-made perturbations such as overfishing, eutrophication and acidification.

Prerequisite: BIO203 or BIO12 or permission of instructor.
Session: Winter Day
C. Niedzwieki

**BIOC270** Cell Biology

Phone ID: 01313265

This course will focus on both structural and functional aspects of cells. Topics to be covered include: the structure and function of cellular organelles, the cytoskeleton, organelle biogenesis, the cell cycle, membrane transport, hormones and signal transduction, cancer, and cell-cell interactions. These topics will be discussed with regard to insights obtained from various approaches including microscopy and molecular biology.

Two one-hour lecture per week.
Exclusion: BIO290Y
Prerequisite: One full-course equivalent from the following: BIOC602Y, BIOC605Y, BIOC257F, BIOC285F, BIOC286F, BIOC385F, BIOC385Y, BIOC385Y may be taken concurrently.
Session: Winter Day
B. E. Daugelis, C. D. Riggs, J. H. Youzen

**BIOC395** Biology of the invertebrates

Phone ID: 01332931

A general survey of the invertebrate animals (Protista-Urcheorchozoa), excluding the Arthropoda, with emphasis on those groups of animals having modern evolutionary importance. Lectures, discussions and laboratory will cover classification and study of diversity within groups, with emphasis on functional morphology and evolution. Living specimens and technical films will form an important part of laboratories.

One two-hour discussion session and one three hours of laboratory work per week. Field trip.
Exclusion: ZOO22Y
Prerequisite: BIAO03 or BIO12
Session: Winter Day
D. D. Williams

**BIOC365** Insects and other Arthropoda

Phone ID: 01332935

The phylum Arthropoda contains the most numerous and successful of all invertebrate animals. The phylum includes such familiar organisms as insects, crabs, lobsters, barnacles, spiders, scorpions, centipedes and millipedes. The course will
cover functional morphology and evolution of aquatic and terrestrial forms, classification, ecology and behavior of important groups. Live specimens and technical films will be included in laboratory work.

One two-hour lecture/discussion session and a three-hour laboratory per week. Offered in alternate years. Exclusion: ZOO3515
Prerequisite: BIO303 or BIO204
Session: Winter Day
D. D. Williams

BIOC315 Invertebrate Neurobiology
Telephone ID: 01353315
In this course we examine changes in neurons, synapses and muscles which occur naturally such as during development and regeneration or are imposed by conditions such as injury in selected invertebrates. Topics include development and regeneration of claw asymmetry in lobsters and snapping shrimp, conversion and regeneration of synapses in crayfish, programmed death of insect neurons and muscles, neural control of flight in locusts and neural basis of right and withdrawal in sea slugs. There are approximately 11 topics in the course and each is covered by examining 1-3 scientific papers on the topic. In addition, two written reports in the form of scientific papers are required and these reports will be based on the students' analysis of data provided by the instructor.

One two-hour lecture per week and tutorials as needed.
Prerequisite: BIO203
Session: Winter Evening
C. K. Connell
BIOC320 Developmental Neurobiology
Telephone ID: 01333253
A course examining how the vertebrate nervous system develops and the mechanisms which guide such development. Beginning with how the nervous system arises during embryonic development, the course will address how neurons acquire their characteristic properties, grow out to target locations, and make appropriate synaptic connections.

Topics will include differentiation of nerve cells, migration of neurons, nerve growth factors, synaptogenesis, role of muscle, synapse formation and rearrangement of neuronal connections.

One two-hour lecture per week.
Prerequisite: BIO203, P HYS401
Session: Winter Evening
C. A. Connell

BIOC325 Introduction to Biochemistry
Telephone ID: 01333563
An introductory course for students in the biological sciences, designed to introduce a broad range of biochemical topics. Topics covered in the course will include: metabolism of sugars, amino acids and lipids and the relationship of these in the energy metabolism of the cell; the effect of hormones on cellular metabolism; structure and function of enzymes; structure and breakdown of nucleic acids; gene coding techniques; biosynthesis of proteins. Regulation and interaction of metabolic pathways will be discussed.

The teaching method will consist of one two-hour lecture per week.
Exclusion: BIOC335, BIOC325Y, BIOC212Y
Prerequisites: BIO203, C MIB447 (CMIB407)
Session: Winter Evening
R. Baker

BIOC385 Laboratory in Biochemistry
Telephone ID: 01333643
An introductory laboratory course designed to introduce students to basic experimental techniques used in biochemical research, including: spectrophotometry, electrophoresis, radioisotopes, enzymatic and electrophoretic protein fractionation, etc.

The teaching method will consist of three hours of laboratory work plus one hour of lecture each week.
Exclusions: BIOC230, BIOC247, BIOC212Y
Prerequisites: BIO203, C MIB447 (CMIB407)
Corequisites: BIOC255
Course: BIOC385
Session: Winter Day
C. Pa

BIOC425 Plant Community Ecology
Telephone ID: 01334573
An examination of both the theory and methodology of vegetation analysis, including: description, quantitative analysis and classification of plant communities, the dynamics of vegetation, including succession theory, and the response of vegetation to the climate-change, wildfire, pathogens and other environmental factors.

One two-hour lecture and one three-hour laboratory per week.
Exclusion: BIOC335, BIO212R
Prerequisite: BIO303
Session: Winter Day
D. Hik

BIOC446 Molecular Physiology of the Bacterial Cell
Telephone ID: 01324583
A lecture and laboratory course emphasizing the molecular mechanisms of bacterial cell regulation and of cellular processes such as active transport, chemiosmotic, secretion and antibiotic resistance. The biological basis of using bacterial host-virus systems in recombinant DNA technology is discussed. Laboratory exercises are research-oriented experiments involving the growth and enumeration of bacterial cells, effects of antibiotics, incorporation of radiotracers into macromolecules and the isolation and characterization of bacterial plasmids. Gel electrophoresis, liquid scintillation counting and other research techniques are used.

One two-hour lecture and one three-hour laboratory per week.
Limited enrollment: 20
Prerequisites: HON102, HON102
Session: Winter Day
J. C. Silver

BIOC465 Environmental Toxicology
Telephone ID: 01334653
An examination of the effects of pollutants on ecosystems. Pollutants are substances that occur in the environment at least in part as a result of anthropogenic activity, and have deleterious effects on living organisms. This course will deal with the effects of pollutants on the structure (e.g., species composition, diversity, food web complexity), and function (e.g., nutrient cycling, primary production, secondary production) in aquatic and terrestrial ecosystems.

Prerequisites: BIO203 or BIO212 or permission of instructor
Session: Winter Day
C. Matsukata

BIOC470 Theoretical Foundations of Biology I
Telephone ID: 01337033
An examination of the conceptual and logical aspects of explanation, theory, and model construction in biology.

The following topics will be covered: the structure of evolutionary theory, the nature of selection, fitness and adaptation, reductionism in genetics; reductionism in evolution; and the role and nature of functional explanation in biology.
Exclusion: BIPC705, PHIL370
Prerequisites: BIO203 or BIO212
Session: Winter Day
P. Thompson

BIOC485 Advanced Field Course in Ecology
Telephone ID: 01339933
Inter-university selections from a variety of field courses offered by the Ontario Universities Program in Field Biology, a co-operative arrangement among nine universities in Southern Ontario. Courses, of one or two weeks' duration at field sites from late April through mid September, are announced each January, and must require a major paper or project report to be submitted within six weeks of course completion. A fee for room and board is charged over and above tuition. Limit of courses available is 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 and may take one two-week course or two one-week field courses to complete this credit. See the Scarborough co-ordinator, Professor D. D. Williams, for further details.
Prerequisites: BIO203, BIO212 or permission of instructor
Session: Winter Day
D. D. Williams

BIOUSY Supervised Study in Biology
An independent study course designed to permit directed examination of the literature of a selected topic and/or laboratory or field project in biology. Supervision of the work is arranged by initial agreement between student and instructor. Will require a seminar presented by the student during a Biology Research Day in the Spring.

Students are advised to apply early to ensure they have sufficient time to complete the necessary registration procedures. They must obtain consent from the supervising instructor before registering for this course. Exclusion: BIOC485
Prerequisites: Satisfactory completion of BIOC370, with at least a grade of B in this course.
Session: Winter Members of Faculty
BIO029 Directed Research in Biology
Identical to BIO030Y but not to be taken with the same faculty member or in the same term.
Prerequisite: Completion of fifteen full-course equivalents, of which at least four must be Biological Sciences B- or C-level courses. Will require a seminar presented by the student during a Biology Research Day in the Spring.
Students are advised that they must obtain consent from the supervising instructor before registering for this course.
Exclusion: B OT4407Y, ZOO648Y
Session: Winter
Members of Faculty

BIO065 Advanced Genetics
Telephones ID #: 0143655
This course deals in depth with three or four topics in the area of genetics. In addition to lectures by the instructor, students will present oral reports based on readings of journal articles and lead a discussion of their reports. The topics covered will be different each time the course is given.
Two two-hour lectures per week.
Offered in alternate years. Limited enrolment: 10.
Prerequisite: BIO065
Session: Winter Day
M. F. Falasse

BIO17F Plant Molecular Biology
Telephones ID #: 0134773
An upper level course which elaborates on current genetic, molecular and biochemical aspects of plant cell metabolism.
Plants utilize a number of biochemical pathways which are not found in animal cells. It is not always clear what the implications of these pathways are, and to what extent they may be conserved in other eukaryotic cells. With the advent of plant transformation systems and recombinant DNA techniques, these unique developmental changes and responses to environmental stimuli are beginning to be understood at the molecular level. To be covered will include the genetics of Agrobacterium and plant transformation, generation of somatic hybrids, targeting of proteins to the chloroplast, interactions between nuclear and chloroplast genomes, molecular biology of plant development and fixed evolution, embryogenesis and development of monocots and dicots, cis and transacting factors controlling gene expression during the course of development and in response to environmental cues, plant genetics, and agricultural applications.
One two-hour lecture per week.
Exclusion: MGB6604
Prerequisite: BIO17F
Session: Winter Day
C. D. Rigler

BIO185 Molecular and Cellular Cytogenetics
Telephones ID #: 0134185
The structure of eukaryotic nuclear genomes will be examined closely in this course. This information will then be integrated with theories on how nuclear genomes accomplish chromosome replication and nuclear division. How evolution and differentiation of new genomes occur will be considered within the above framework. The major topics for the course will be chromosome structure and organization, control of chromosome replication, chromosome behavior in mitosis and meiosis, chromosome and genome "abnormalities," genome evolution and speciation, and molecular characterization of genomes -- technological approaches.
One two-hour lecture per week.
Limited enrolment: 40.
Prerequisites: BIO125 or BIO220 or BIO575 (BI2C65) or equivalent St. George courses.
Session: Winter Day
C. Huiskenkamp

BIO195 Molecular Biology of the Gene
Telephones ID #: 0134195
The basic concepts of the molecular biology of the gene - key experimental approaches. The lecture and laboratory course will indicate how recent advances in genetic engineering have permitted great strides to be made in increasing our basic knowledge of the molecular biology of the gene. The course will demonstrate how recent research activity utilizing recombinant DNA technology has advanced our understanding of many aspects of the genome. Control of development, human genetic diseases and the molecular function of the brain. Students will receive laboratory experience in the use of a wide range of molecular biology techniques.
One two-hour lecture per week.
Labor course will meet once every two weeks for a 3 a.m. to 5 p.m. session. Limited to 30 students.
Prerequisite: BIO1055 or BIO135 (B13C65)
Session: Winter Day
J. B. Brown

BIO225 Microbiology
Telephones ID #: 0143659
Prerequisite: BIO175
Session: Winter
C. D. Rigler

BIO255 Human Anatomy
Telephones ID #: 0143663
The course is designed to provide students with an understanding of the structure and function of the human body and its subsystems. The course will cover the gross and microscopic anatomy of the cells, tissues, organs, and systems of the body. Emphasis will be placed on the structural and functional relationships of the body systems and their interactions in health and disease. The course will include lectures, laboratory observations, and demonstrations.
Exclusion: HUM645
Prerequisite: BIO155
Session: Winter Day
M. Liu

BIO265 Veterinary Histology: Organ and Tissue Tissue and Tissue (BIO265)
Prerequisite: BIO105 or BIO125
Session: Winter
C. D. Rigler

BIO285 Plant Biology and Development: Cells and Tissues
Prerequisite: BIO105 or BIO125
Session: Winter
J. L. Brown

BIO295 Plant Population Ecology
Exclusion: B OT3306
Prerequisite: BIO125
Session: Winter Day
J. L. Brown

BIO305 Animal Behaviour
Prerequisite: BIO105 or BIO125
Session: Winter Day
J. L. Brown

BIO315 Evolutionary Biology
Exclusion: BIO255
Prerequisite: BIO105 or BIO125
Session: Winter Day
J. L. Brown

BIO325 Conservation Biology
Prerequisite: BIO125
Session: Winter Day
J. L. Brown

BIO375 Theoretical Foundations of Biology II
Exclusion: B OT7711
Prerequisites: BIO2C71 or BIO255
Session: Spring
J. L. Brown

BIO395 River Ecology
Exclusion: ZOO659
Prerequisite: BIO105 or BIO125 or permission of instructor
Session: Spring
J. L. Brown

BIO405 Physiology of Allergies
Exclusion: B OT7734
Prerequisite: Eight full-course equivalents in Biology
Session: Spring
J. L. Brown

BIO605 Evolutionary Genetics
Prerequisites: BIO105 or BIO125
Session: Spring
J. L. Brown

Courses Not Offered 1994/95
BIO195 Molecular Biology of the Gene
Exclusion: MGB6604
Prerequisite: BIO17F
Session: Winter Day
C. D. Rigler

BIO225 Microbiology
Telephones ID #: 0143659
Prerequisite: BIO175
Session: Winter
C. D. Rigler

BIO255 Human Anatomy
Telephones ID #: 0143663
The course is designed to provide students with an understanding of the structure and function of the human body and its subsystems. The course will cover the gross and microscopic anatomy of the cells, tissues, organs, and systems of the body. Emphasis will be placed on the structural and functional relationships of the body systems and their interactions in health and disease. The course will include lectures, laboratory observations, and demonstrations.
Exclusion: HUM645
Prerequisite: BIO155
Session: Winter Day
M. Liu

BIO265 Veterinary Histology: Organ and Tissue Tissue and Tissue (BIO265)
Prerequisite: BIO105 or BIO125
Session: Winter
C. D. Rigler

BIO285 Plant Biology and Development: Cells and Tissues
Prerequisite: BIO105 or BIO125
Session: Winter
J. L. Brown

BIO295 Plant Population Ecology
Exclusion: B OT3306
Prerequisite: BIO125
Session: Winter Day
J. L. Brown

BIO305 Animal Behaviour
Prerequisite: BIO105 or BIO125
Session: Winter Day
J. L. Brown

BIO315 Evolutionary Biology
Exclusion: BIO255
Prerequisite: BIO105 or BIO125
Session: Winter Day
J. L. Brown

BIO325 Conservation Biology
Prerequisite: BIO125
Session: Winter Day
J. L. Brown

BIO375 Theoretical Foundations of Biology II
Exclusion: B OT7711
Prerequisites: BIO2C71 or BIO255
Session: Spring
J. L. Brown

BIO395 River Ecology
Exclusion: ZOO659
Prerequisite: BIO105 or BIO125 or permission of instructor
Session: Spring
J. L. Brown

BIO405 Physiology of Allergies
Exclusion: B OT7734
Prerequisite: Eight full-course equivalents in Biology
Session: Spring
J. L. Brown

BIO605 Evolutionary Genetics
Prerequisites: BIO105 or BIO125
Session: Spring
J. L. Brown

Chemistry

Chemistry (B.Sc.)

Coordinator of First Year Students in
Chemistry: A. Verstee (287-7254)
Chemistry can be viewed as both a challenging intellectual pursuit and a powerful, practical tool for developing and basing the reasoning of our contemporary society. The Chemistry Handbook outlines the teaching and research activities of the Chemistry faculty and offers a wide range of informal advice or undergraduate activities. A sound knowledge of the fundamental concepts of chemistry is useful to any student in the Physical or Life sciences. The basic course in chemistry is CHEM102Y which must be taken by those who wish to take further chemistry courses or who require chemistry for another course.

Completion of CHEM102Y permits students to take any of the B-level courses in Chemistry. These are divided according to the following subdisciplines: Inorganic Chemistry, Analytical Chemistry, Physical Chemistry and Organic Chemistry. Thereafter, one can proceed to advanced-level courses at the C and D level.

For those who wish to enroll subsequently in St. George 400-series courses, completion of the following groups of courses, together with their prerequisites and prerequisites, will ensure admission to the St. George courses indicated, provided that B standing or permission of the instructor is obtained.

To Enter Complete St. George Series Scarlet: Courses
420 CMB42Y; CMB42Y; CMB42Y; CMB42Y
430 CMB42Y; CMB42Y; CMB42Y; CMB42Y
440 (except 447) CMB42Y; CMB42Y; CMB42Y

NOTE: TIMETABLE CONSTRAINTS USE ST. GEORGE 400 SERIES. LEVEL 1 AND ST. GEORGE 400-LINE COURSES BEING TAKEN IN THE SAME YEAR.

While courses in Physics do not appear among the prerequisites or co-requisites of most courses in Chemistry, students are urged to take PHYS101Y early in their programmes. Thus, the suggested first-year
Chemistry

programme in Chemistry includes CIBA20, MAT320Y and PHY302Y. Completion of a Specialist or Major Programme in Chemistry can lead to a number of career opportunities in industry, research, teaching, and government. Students who are interested in these Programmes are urged to consult with the supervisors early in their academic careers. Please refer to the Physical Sciences section of the Calendar for the following programmes.

Specialist Programme in Chemistry

Specialist Programme in Chemistry and Biochemistry

Specialist Programme in Environmental Chemistry

Major Programme in Chemistry

Major Programme in Biochemistry

CIBA20 General Chemistry

Nuclear chemistry, atomic and molecular structure, ionic solids, bonding in organic compounds, states of matter and equations of state; thermo-chemistry; chemical equilibria in the gas phase and in solutions; reaction kinetics.

The course includes the quantitative description of gaseous, ionic and solutions and develops ideas of bonding and structure in chemical compounds based on Lewis structures, VSEPR and simple molecular orbital theory. Reactions and equilibria in chemical systems are explored through their thermodynamic properties and chemical kinetics. Time permitting, descriptive topics such as introductory organic chemistry are used to round out the course. Two lectures per week. One-four-hour laboratory and one one-hour tutorial in alternating weeks.

Exclusions: CHM102, 133, 135, 136, 137, 150, 151. Prerequisite: OAC Chemistry or Grade 12 Chemistry and permission of instructor; OAC Calculus.

Corerequisite: NONE. But MAT20Y is strongly recommended and is required for some higher level chemistry courses. Session: Winter Day

CHMB11Y 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 gravimetric and volumetric analysis are studied as well as modern instrumental analysis. The instrumental section will introduce the techniques of spectrophotometry and electrochemistry, as well as chromatographic methods. Thirty-nine hours of lecture given, generally, as 2 hours one week and 1 hour the next, 108 hours of laboratory, given as 4 hours per week.

Exclusion: CHM102Y, CHM219, 268, 269. Prerequisite: CIBA20Y

Session: Winter Day

CHMB22Y Introductory Physical Chemistry

Introduction to physical chemistry, including thermodynamics, elementary statistical mechanics and chemical kinetics. The course starts with the application of the basic laws of thermodynamics to a variety of chemical problems. Topics covered include spontaneous processes, chemical and phase equilibria, properties of solutions and electrochemistry. Further course topics are: the kinetic theory of gases, statistical mechanics of simple model systems, elementary chemical kinetics and theories of chemical bonding. Exclusions: CHM103Y, CHM222, 223, 225. Prerequisite: CHMAG2Y, MAT206Y, PHYA11Y. CIB351F and MAT142S are strongly recommended but not required. However, non-chemistry majors for CIBM22F are not required.

Session: Winter Day

CHMB23Y Inorganic Chemistry I

The ideas of structure and bonding of atoms, molecules and ionic lattices introduced in CIBMAG2Y are further developed and applied to the rich variety of structures of inorganic solids. The same ideas provide a framework to account for the reactions of these substances, namely acid-base and redox reactions. These concepts are used to rationalize the descriptive chemistry of the elements, particularly those of the s- and p-blocks. The structure and properties of the d-metal complexes are introduced as a special case of acid-base interactions. Two one-hour lectures per week.

Exclusion: CHM101Y, CHM238, 239, 338, 339. Prerequisite: CHMAO2Y

Session: Winter Day

CHMB44Y Organic Chemistry I

Telephone ID #: 02824463

The chemistry of the principal functional groups encountered in aliphatic and aromatic compounds, interpreted in terms of reactivity, stereochemistry and reaction mechanisms. An introduction to organic spectroscopy will also be given. The fundamentals of organic chemistry, including aliphatic and aromatic chemistry and an introduction to the chemistry of biologically important molecules such as proteins and carbohydrates. Two lectures per week and a four-hour laboratory every second week.

Exclusion: CHM105Y, CHM240, 248, 249, 268, 269. Prerequisite: CHMA20Y

Session: Winter Day

CHMB55F Environmental Chemistry

Telephone ID #: 02825533

This course covers aspects of chemical substances and processes as they occur in the environment, including both naturally occurring and synthetic chemicals. This will include an introduction to atmospheric chemistry, aqueous chemistry, some agricultural and industrial chemistry, and chemical analysis of contaminants and pollutants. Specific topics may include depletion of the ozone layer, the greenhouse effect, photochemical smog, the global chemical cycles of some of the elements essential to life, natural waters, acid rain, drinking water, sewage and waste disposal, chlorinated organic compounds and metals in the environment. Chemical concepts utilized include the calculation of reaction rates and equilibria, and the structures and reactions of organic and inorganic compounds. This course is intended for non-chemistry majors and cannot be included in a Chemistry programme. Two one-hour lectures per week.

Prerequisite: CHMA20Y

Exclusion: CHM531F, CHM5310

Session: Winter Day

CIBM22F Advanced Physical Chemistry

This course is a continuation of CIBM22Y. Further topics in physical chemistry are treated, including molecular spectroscopy, topics in statistical mechanics and advanced topics in kinetics. The spectroscopy portion will primarily be concerned with the use and interpretation of various techniques (IR, UV/VIS, NMR, etc.). Both equilibrium and non-equilibrium statistical mechanics will be discussed, through calculation of partition functions for model systems (equilibrium) and treatment of diffusion and other transport properties, as well as the effects of noise (non-equilibrium). The advanced kinematic portion will cover oscillatory reactions, with examples drawn from chemistry, biochemistry and ecology. The approach of this course is more theoretical than that of CHM225.

Exclusion: CHM102Y, CHM229F.

Prerequisite: CHM122Y, MATB41F, MATB42E

Session: Winter Day

CHM225F Environmental Physical Chemistry

Telephone ID #: 02832553

This course treats physical chemical topics of environmental and ecological importance, including colloidal and interfacial chemistry, atmospheric chemistry and large scale physical and chemical transport processes. Colloidal chemistry deals with thermodynamic stability and phase equilibria in colloids. Atmospheric chemistry treats the chemical kinetics and photochemistry of the atmosphere, especially as these relate to pollution and ozone depletion mechanisms. Transport properties such as percolation and diffusion are treated in an environmental setting. This course has a more applied approach than that of CHM225.

Prerequisite: CHM222Y

Exclusion: CHM521F

Session: Winter Day

CIBM25F Experimental Physical Chemistry

Telephone ID #: 02832633

This course gives an introduction to modern techniques in physical chemistry, through experiments and computer simulation. Computer modelling and experiments will examine time-dependent phenomena such as complex and oscillatory chemical reactions, "Real" experiments on kinetics, thermodynamics and spectroscopy will illustrate the topics covered in the lecture courses (CHM122Y, C22E and C22S), with some emphasis on environmental systems.

Exclusion: CHM102Y, CHM228, 269, 270.

Prerequisite: CHM122Y

Corerequisite: CIBM22F

Session: Winter Day
CHIM335 Inorganic Chemistry II

Telephone ID: 0285053

This is a study of the electron, reactions and failure of chemical species in the water, soil and air. Topics include the structure of the electron, reaction mechanisms, electrochemical behavior, and atmospheric chemistry. Much of the chemistry is formalized in terms of reaction mechanisms and bonding. The goal of this course is to introduce students to basic experimental techniques used in chemical research. The course will introduce students to practical and theoretical aspects of techniques used in inorganic chemistry research, including: spectroscopy, chromatography, radiotracers, and electrochemistry. 

Two hours of lecture per week. 

Exclusion: (CHIM200), CHIM238, CHIM338, 339

Prerequisite: CHIMB3Y

Session: Winter Day

CHIM25F Environmental Inorganic Chemistry

Telephone ID: 0281353

This is a study of the electron, reactions and failure of chemical species in the water, soil and air. Topics include the structure of the electron, reaction mechanisms, electrochemical behavior, and atmospheric chemistry. Much of the chemistry is formalized in terms of reaction mechanisms and bonding. The goal of this course is to introduce students to basic experimental techniques used in chemical research. The course will introduce students to practical and theoretical aspects of techniques used in inorganic chemistry research, including: spectroscopy, chromatography, radiotracers, and electrochemistry. 

Two hours of lecture per week. 

Exclusion: (CHIM200), CHIM238, CHIM338, 339

Prerequisite: CHIMB3Y

Session: Winter Day

BIOC361 Laboratory in Biochemistry

Telephone ID: 0283583

An introductory laboratory course designed to introduce students to basic experimental techniques used in biochemistry research. The course will introduce students to practical and theoretical aspects of techniques used in biochemistry research, including: spectroscopy, chromatography, radiotracers, and electrochemistry. 

Three hours of lecture plus one hour of laboratory per week. 

Exclusion: (BIOC361), BIOC170, 371

Prerequisite: BIOC50Y, CHIMB44Y

Corequisite: BIOC50Y

Session: Winter Day

CHIM265 Inorganic Chemistry Laboratory

Telephone ID: 0283583

Synthetic techniques as applied to inorganic compounds, both main group and transition metal examples, including some organometallic complexes. This course is designed to complement both CHIM20Y and CHIM335 by illustration of the theoretical concepts presented in these two courses through primarily synthetic experiments. Characterization of the products obtained will be done by both classical and instrumental methods, primarily infrared spectroscopy. The laboratory meets one day each week in the spring term for 4 hours. 

Exclusion: (CHIM20Y), CHIM200, 368, 369

Prerequisite: CHIMB2Y

Corequisite: CHIM335, CHIMB1Y

Session: Winter Day

CHIM44Y Organic Chemistry II

Telephone ID: 0283583

An in-depth treatment of organic reactions and synthesis, stereochemistry and analytical methods, spectroscopy of organic compounds, and reaction mechanisms. An introduction to physical chemistry, photochemistry, free radicals, polymers, organometallics and inorganic chemistry is a focus of the naturally occurring molecules such as steroids, vitamins and antibiotics. This course provides further experience in organic chemistry to students who have completed one course in the subject. The laboratory experiments are designed to complement the topics covered in lectures, with an emphasis on more advanced techniques, and the use of modern physical techniques and new synthetic methods. 

Two lectures and one three hour laboratory every week. 

Exclusion: (CHIMC03Y), CHIM348, 349, 368, 369

Prerequisite: CHIMB44Y

Session: Winter Day

CHIM304 Special Topics in Organometallic Chemistry and Catalysis

Telephone ID: 0281353

A selection of topics in organometallic chemistry and catalysis. Recent developments are emphasized. It is intended to offer this course every two years alternating with CHIM335. Students should consult with the faculty members involved as to the specific areas to be covered in a given year. 

This course provides an introduction to current research in organometallic chemistry and catalysis. The emphasis will be on organo-chemistry, but a good background in organic and physical chemistry is useful. Two lectures per week. 

Exclusion: (CHIM352Y)

Prerequisite: CHIM335

Session: Winter Day

CHIM39Y Introduction to Research Participation in a chemical research project under the direction of a member of the Chemistry staff, requiring approximately 200 hours of effort. 

The objective is to develop familiarity with some of the methods of modern chemical research. The particular research problem to be pursued will be determined by discussions between the student and the faculty director of the research. Students are advised that they must obtain consent from the supervising instructor before registering for this course. 

Exclusion: (CHIM40), CHIM44L, 428, 439, 449

Prerequisite: Permission of instructor

Corequisite: One of the advanced laboratory courses at St. George (CHIM50Y or CHIM64Y) except for students undertaking a project in physical chemistry. Normally only for students following one of the Chemistry Programs. 

Session: Summer Day, Winter Day

CHIM39Y Library Thesis

A report on a selected current topic in chemistry based on literature research and written under the direction of one of the chemistry staff. Approximately 200 hours of work are expected. The objective is to obtain a thorough understanding of a topic of current interest and to prepare a comprehensive and critical report on this subject. To develop familiarity with the techniques of searching the chemical literature. 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. 

Students are advised that they must obtain consent from the supervising instructor before registering for this course. 

Exclusion: (CHIM40, CHIM44L) (CHIM64Y)

Prerequisite: Instruction

Session: Summer Day, Winter Day

CHIM39YI Library Thesis Similar to CHIM39Y but representing 150 hours of work. 

The objective is to obtain a thorough understanding of a topic of current interest and to prepare a comprehensive and critical report on this subject. To develop familiarity with the techniques of searching the chemical literature. 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. 

Students are advised that they must obtain consent from the supervising instructor before registering for this course. 

Exclusion: (CHIM40, CHIM44L) (CHIM64Y)

Prerequisite: Permission of instructor

Session: Summer Day, Winter Day

Courses Not Offered 1990/91

CHIM335 Special Topics in Inorganic Chemistry

Exclusion: (CHIM348)

Prerequisite: CHIMB35

Next Offered 1995-96
## Classical Studies

### Core Courses

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<td>Greek Language and Culture</td>
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### Elective Courses

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<tr>
<td>CL07C/FS</td>
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<tr>
<td>CL08C/FS</td>
<td>Classical Music</td>
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<td>CL09C/FS</td>
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### Honors Courses

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### Advanced Study

- **Modern Greek**: Advanced Study in Greek Language and Culture
- **Ancient Greek**: Advanced Study in Greek Language and Culture
CLA2106 Selected Topics in Classical Civilization

Telephone ID #: 0310253

For 1994/95 the course will study dreams and visions in the ancient world.

Prerequisite: One full-course equivalent in CLA or GRH or permission of the Instructor.

Session: Winter Day
J.R. Warden
Not offered 1995/96

CLA2107 Ancient Drama: Tragedy

Telephone ID #: 0310833

An exploration of the nature and intent of classical tragic drama, its conventions, historical origins, and cultural context. The course introduces students to the drama of Aeschylus, Sophocles, Euripides, and Seneca. Its objective is to foster an appreciation of the originality and power of ancient tragedy and its influence on the imagination and literature of the western world. The greater part of the course will focus on the individual plays of Aeschylus, Sophocles, and Euripides, brought into ancient perspectives on the nature of tragedy will be sought through reading and discussion of Aristophanes' Frogs and Aristotle's Poetics. Selections from Seneca's Roman tragedies will then be studied.

Exclusion: (DIRA14), (CLA202), (CLA203), (CLA100), (CLA300)
Prerequisite: CLA201 or one full course equivalent in English or another literature.
Session: Winter Day
J.R. Warden
Not offered 1995/96

CLA2108 Ancient Epic: The Oral Tradition

Telephone ID #: 0310053

Homer's Iliad and Odyssey as the culmination of the oral epic in ancient Greece. It has been argued that the first landmarks in the history of western literature are also the greatest. The course will ask how far this may be true, and what factors may contribute to such an assessment. Homer's poetic mark at the same time the culmination of, and foundation for, the tradition of "oral" epic and the beginning of literature as the European world defined it. We shall inquire into the nature of the oral tradition and into the influence Homer's works have had on the development of other literatures.

Exclusion: (CLA101), (CLA203), (CLA100), (CLA215), (CLA225)

CLA2100 Greek and Latin for Scientists

Telephone ID #: 0310203

An examination of the role of Greek and Latin in the formulation of technical terms in the science disciplines.

The course seeks to provide the student who has no previous knowledge of Greek or Latin with the ability to determine the meaning of scientific words by analyzing its structure, to increase his/her reading comprehension of technical vocabulary, to acquaint him/her with the principles of scientific word formation, and to help him/her develop sound non-latinized practices. Topics will include: characteristics, tenses, and modes of scientific nomenclature; Latin and Greek roots, affixes, combining forms, and inflectional patterns; transliteration and pronunciation; malapropisms, misspellings, and hybrids. Particular emphasis will be placed on the biological and medical sciences.

Exclusion: CLA211, CLA201
Session: Winter Day
J.R. McDonald
Not offered 1995/96

CLA2107 Mediterranean Landscapes

Telephone ID #: 0310403

An introduction to the environmental history of the Mediterranean world, with a special focus on the Greco-Roman period.

This course will introduce the student to the fundamental natural processes which have shaped the Mediterranean Basin and the human societies which flourished there: geology and land forms will be presented, together with climate, hydrology and the environmental basis of agriculture. After a general survey of these natural processes, study will be presented with a number of Mediterranean regions suitable for in-depth examination on a "case study" basis. Extensive use will be made of archaeological evidence and of audio-visual materials relating to the Mediterranean environment and human habitation.

Exclusion: CLA2106
Session: Winter Evening
J.H. Corbett
Not offered 1995/96

CLA2108 Army in Empire in the Roman World

Telephone ID #: 0310423

An introduction to the basic military organization of the Roman Empire, with an emphasis on the development of the Roman army both as a fundamental social institution within the Roman state and as an agent of conquest and Romanization. After a survey of the history of the Roman army and a thematic introduction to some of the army's many functions (military and urbanization, communications, logistics and engineering), the course will focus on three major phases of Roman military history for in-depth study: Caesar's conquest of Gaul, the first Jewish Revolt against Rome and the military establishment of the Later Empire. All original sources will be read in English translation.

Exclusion: (GRH100)
Prerequisite: CLA201
Session: Winter Day
J.H. Corbett
Not offered 1995/96

CLA2109 Women, Family and Household in Ancient Greece

Telephone ID #: 0310203

The role and status of women in Greek society, with an emphasis on the representation of the household in Greek literature.

Topics will include the place of the family in Greek society (since the female was the main sphere of women's activity); the relationship of women, children and slaves to the master of the household; the roles of persons of different status in the community; the literary depictions of women and family life in Greek literature, beginning with Homer; visual representations of women in sculpture and painting.

Exclusion: (CLA206); CLA215; CLA220; CLA315
Prerequisite: CLA201
Session: Winter Day
M.E. Irwin
Not offered 1995/96

CLA2110 Women, Family and Household in the Roman World

Telephone ID #: 0310513

The role of women in various periods of Roman history, with emphasis on the representation of women in Latin literature, the corpus of Roman law and the visual arts.

Topics will include: Roman women as daughters, wives, mothers, and sisters; images of women in drama, satire, and history; the place of the family in Roman society; the ideal of Roman womanhood; marriage as institution and ritual; private movements and the "liberation" of Roman women.

Exclusion: CLA219; CLA220
Prerequisite: CLA201
Session: Winter Day
M.E. Irwin
Not offered 1995/96
Minor Programme Modern Greek will be expected to do their written work in Greek. The course is open to students with no previous knowledge of the Greek language, who will do their written work in English. Prerequisite: (GRK810), GRK811 or GRK814, or CLA800 for any related course in GRK, CLA, or GGR Session: Winter Day
G. Kirkopoulou
Not offered 1995/96

GRK103-34F
GRK103-36F

Supervised Reading in Modern Greek
Reading of texts in Modern Greek chosen by consultation between students and faculty.

Students who wish to enter the supervised reading programme should enrol in any of the above courses. They should then contact the co-ordinator and discuss what they want to read. (This will depend to some extent on time available.) The student will meet regularly with the tutor--the exact arrangements depending on the difficulty of the chosen text and the level of the student's ability. Problems in the text will be discussed as well as the literary qualities and cultural context of the work being studied.

Exclusions: (GRK835-35, GRK835-39, GRK869, GRK870, GRK102, GRK103)

Prerequisite: One of GRK103, GRK112, GRK113, GRK114 or demonstrated competence in reading Modern Greek.

Session: Winter Day
Co-ordinator: G. Kirkopoulou

Courses Not Offered in 1994/95

Classics
CLA111FIS

The Classical Element in English
Exclusion: CLA110
Offered 1995/96

CLA205FIS

Greek Religion
Exclusion: (CLA211)
Prerequisite: CLA101 or CLA102
Offered 1995/96

CLA215FIS

Roman Religion
Exclusion: (CLA211)
Prerequisite: CLA101 or CLA102
Offered 1995/96

CLA415FIS

Freedom in the Making of Western Culture
Exclusions: GRH101, (GRH125), (GRH126), CLA130
Offered 1995/96

CLA401FIS

Ancient Epic: The Literary Tradition
Exclusions: (CLA101), (CLA103), (CLA105), CLA102
Prerequisite: CLA101 or one full-course equivalent in English or another literature
Offered 1995/96

CLA420FIS

The Beginnings of Science
Exclusion: CLA203
Prerequisite: CLA101
Offered 1995/96

CLA435FIS

Science and Technology in Ancient Rome
Prerequisite: CLA101
Offered 1995/96

Greek

GRK121Y

Images of Modern Greece: 1900 to the Present
Exclusions: (GRK122), GRK250
Prerequisite: (GRK110), GRK114, or permission of instructor
Offered 1995/96

Cognitive Science

Supervisor: R.J. Binnick (287-7129)

Cognitive Science is the study of knowledge - how human beings, other animals, and even machines acquire knowledge, organize and store that knowledge, and use that particular knowledge to solve problems. Cognitive science is particularly interested in the way we use symbolic systems, such as natural or computer languages, drawing, or mathematical notation, to organize our knowledge of the world. Cognitive Science considers questions like: Are we born with some knowledge already in place? How does our experience of the world allow us to develop knowledge? How does the knowledge we already have affect our experience of the world? Is knowledge stored as visual images, words, or abstract propositions? How do we decide which pieces of information are relevant to a specific problem? How do we master and store the complicated system of rules that allows us to use language? How do language and culture affect our understanding of the world? How is the knowledge stored in a computer like and unlike the knowledge stored in our heads?

Researchers in philosophy and psychology, linguistics, computer science and anthropology all use different methods to investigate these questions and have all provided part of the answers. The Cognitive Science Programme (Specialist and Major) include courses from all these disciplines from the humanities and the sciences at both the theoretical and the practical level. In addition to the usual opportunities for employment and graduate studies available to students who earn degrees in Cognitive Science, the Faculty of Education, University of Toronto, considers four year graduates of the Specialist Programme in Cognitive Science to have an excellent preparation for applications to the Primary Junior Division of the Bachelor of Education Programme. Applicants should have an overall 70% average and appropriate experience.

The Specialist Programme requires distinct courses. The Major Programme requires eight courses.

Specialist Programme in Cognitive Science
Supervisor: R.J. Binnick (287-7120)

Note: (1) Students should check the prerequisites, corequisites and exclusions for all courses marked with an asterisk (*)

Some courses have enrolment limits and may require auditioning. (2) Cognitive Science students should consult with the supervisor of studies before selecting their Computer Science courses. (3) Students should also note that several courses in CSC, LIN, PHI, and PST offered at St. George campus can be applied to their degree programme by special arrangement with the supervisor of studies.

Required Courses

Seven full-course equivalents:

PSY101Y Introduction to Psychology
LIN101Y General Linguistics
HUM101Y Fundamental Questions of Philosophy
COM100Y Computer Basics

OR

CIASA104Y Introduction to Computing Elements of Cognitive Science
PSY101Y Introduction to Psychology
PSY120F Data Analysis in Psychology
PSY202F Memory and Cognition
PSY203F Belief, Knowledge and Truth
PHL101Y Theories of Mind
FIL205FPsycholinguistics

Optional Courses

Psychology

Two full-course equivalents chosen from the following to include either PSY101Y or both:

PSY101Y Introduction to Social Psychology
PSY120F Introduction to Psychological Developmental Psychology
PSY121F Perception and Cognition
PSY202F Sensation and Perception
PSY301F Sensation and Perception
PSY305F Sensation and Perception
PSY310F Sensation and Perception
PSY311F Sensation and Perception
PSY312F Sensation and Perception
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PSY314F Sensation and Perception
PSY315F Sensation and Perception
PSY316F Sensation and Perception
PSY317F Sensation and Perception
PSYD620\*  Neuroplasticity: Mechanism and Function
COCO612\* Supervised Study in Cognitive Science

Linguistics
Two full-course equivalents chosen from the following:
  LINB811\* Practical Language Analysis
  LNRB745\* Phonetics: The Study of Speech Sounds
  LINB251\* Second Language Learning
  LINC117\* Syntax
  LINC141\* Semantics: The Study of Meaning

LINC341\* Pragmatics: The Study of Language Use
LINC264\* Second Language Teaching
PHEC414\* Developmental Psychology
PLDS515\* Disorders of Speech and Language

Supervised Study in Cognitive Science

Cognitive Psychology
One full-course equivalent chosen from the following:
  COGD305\* Supervised Study in Cognitive Science
  PHIL315\* Philosophy of Education
  PHIL220\* Belief, Knowledge, and Truth
  PHIL485\* Philosophy in the Late Modern Age
  PHIL360\* Symbolic Logic I
  PHIL385\* Philosophy of Language
  PHIL115\* Theories of Mind
  PHIL345\* Philosophy in the Late Modern Age II
  PHIL350\* Symbolic Logic II
  PHIL325\* Modal Logic and Probability
  PHIL347\* Metaphysics
  PSYC225\* Theoretical Psychology
  TEDS405\* Current Topics in Theoretical Psychology

Consortium Courses
One full-course equivalent chosen from the following:
  CSCB455\* Discrete Mathematics for Computer Science
  CSCB455\* Computer Organization
  CSCB505\* Computer Applications
  One half-course in Anthropology at the B-level or higher

Major Programme in Cognitive Science

COGD105 Supervised Study in Cognitive Science

Ordinarily taken after Philosophy 101 and 301.

COGD105\* Supervised Study in Cognitive Science

PLDS515\* Disorders of Speech and Language

COGD021\* Supervised Study in Cognitive Science

Computer Science

Supervised reading or research project.

COGD208\* Supervised Study in Cognitive Science

PLDS515\* Disorders of Speech and Language

COGD021\* Supervised Study in Cognitive Science

PLDS515\* Disorders of Speech and Language

COGD021\* Supervised Study in Cognitive Science

PLDS515\* Disorders of Speech and Language

Computer Science

Supervised reading or research project.

COGD208\* Supervised Study in Cognitive Science

PLDS515\* Disorders of Speech and Language

COGD021\* Supervised Study in Cognitive Science

PLDS515\* Disorders of Speech and Language

Computer Science

Supervised reading or research project.

COGD208\* Supervised Study in Cognitive Science

PLDS515\* Disorders of Speech and Language

COGD021\* Supervised Study in Cognitive Science

PLDS515\* Disorders of Speech and Language

Computer Science

Supervised reading or research project.

COGD208\* Supervised Study in Cognitive Science

PLDS515\* Disorders of Speech and Language

COGD021\* Supervised Study in Cognitive Science

PLDS515\* Disorders of Speech and Language

Computer Science

Supervised reading or research project.

COGD208\* Sup
Please refer to the Physical Sciences section of the Calendar for the following six programmes.

Specialist Programme in Computer Science

Specialist Programme in Computer Science and Mathematics

Specialist Programme in Computer Science and Physics

Specialist Programme in Computer Science and Statistics

Specialist Programme in Co-op Computer Science and Physical Sciences

Specialist Programme in Physical Sciences

Major Programme in Mathematical Sciences (Computer Science)

Specialist Programme in Computer Science for Data Management

Supervisor: G. Capil (287-7351)

Note: Due to enrollment restrictions in required management courses, registration in this programme is limited. A maximum of twenty students will be admitted annually to the Second Year of the Programme. Selection will be based on grades in first-year courses in Computer Science and Calculus. There are thirteen and one-half courses required for the Specialist Programme in Computer Science for Data Management. The courses may be taken in a different order than that listed below, but care must be taken to ensure prerequisites are satisfied and conflicts avoided.

First year:
- CSC 450Y; MAT 226Y or (MAT 227Y) or (MAT 255Y); MAT 204Y, MGT 207Y, ECS 402Y

First or Second Year:
- CSC 170Y

Second year:
- CSC 236Y, CSC 238Y, CSC 238Y, ECS 204Y or ECS 200Y, MAT 141F and MAT 142S

Third year:
- CSC 245Y, CSC 278Y, MGT 202Y, STA 473P

* A lower-level statistics course is normally a prerequisite to STA 473P.

Third or fourth year:
- CSC 204/6, 434


Note that only CSC 250, 251, 254, and 285 are available at Scarbrough; the remaining courses must be offered and completed at the St. George Campus. Consult the Department of Computer Science Undergraduate Student Handbook. In completing the Programme, a student is discouraged from including any Computer Science courses other than those required above.

The following courses are offered only on the St. George Campus. Consult the Department of Computer Science Undergraduate Student Handbook for more details.

CSC 300 Computers and society
CSC 318 Computer graphics and applications
CSC 316 Numerical methods
CSC 340 Information systems analysis and design
CSC 327 Microcomputer software
CSC 408 Software Engineering
CSC 418 Interactive computer graphics
CSC 428 Human-computer interaction
CSC 434 Data management systems
CSC 438 Compatability and logic
CSC 444 Economics of computers
CSC 446 Computational methods for partial differential equations
CSC 448 Formal languages and automata
CSC 454 The business of software
CSC 458 Computer Networks
CSC 468 Programming methodology
CSC 468 Operating systems
CSC 469 Computer algebra
CSC 484 Applied artificial intelligence
CSC 485 Introduction to computational linguistics
CSC 488 Language processor

Major Programme in Computer Science

The Major Programme in Computer Science is no longer offered. Students registered in the Major will be allowed to complete the programme. Students may now enrol in the Major Programme in Mathematical Sciences (Computer Science option).
Co-operative Programme in Administration

Director: H. Wattman (287-7107)
Co-ordinator: B. Abramson (287-7112)
Supervisor of Studies: A. Stawinoga (287-7351)

The Co-operative Programme in Administration is a work-study programme which combines academic studies, primarily in Management, Economics and Political Science, with work experience in public and private enterprises. The programme alternates study terms with work terms and typically requires almost five years to complete. Administration students learn through both studies and practical experience about:
- decision-making in both business and government
- the management of policies and programmes dealing with complex economic, political, social and business problems
- financial and management accounting
- the allocation of resources
- policy and economic analysis

Students prepare for careers in business, government, regulatory agencies, crown corporations or for further studies in the Social Sciences (MA) or Business Administration (MBA).

Participants in the Co-operative Programme receive a Bachelor of Arts (B.A.) degree, with a specialization in Administration. Students who also complete the requirements of the Specialist Programmes in Management & Economics or Management & Economic Theory will be eligible to request the Bachelor of Commerce (B.Com) degree in lieu of a Bachelor of Arts (B.A.) degree.

Admission to the Programme

Applicants may apply to the programme directly from secondary school or may apply as transfer students from college or first-year university. The timing of work placements for students who receive transfer credit will depend upon the particular university courses completed. When applying, applicants must include the special code for this Scarborough Campus programme on the Application For Admission To An Ontario University. Once the University of Toronto is notified of the application, candidates are sent an additional co-op application form to complete. This co-op application must be received by the Scarborough College Registrar's Office no later than April 15 to ensure an applicant's consideration. In order to allow sufficient time for processing, it is therefore important that the applicant apply to the University of Toronto by March 1.

Note that enrolment in the programme is limited. Admissions are granted on the basis of applicants' interest and potential ability in administration, accomplishment and grades in both verbal and quantitative studies, and a letter of reference from a high school teacher or university instructor. Interview may be required.

Fees

Every student in a co-operative programme is required to pay additional fees as established by the University.

Specialized (Co-operative) Programme in Administration

This programme requires eight four-month terms of study, four work terms and two off terms over a five-year period. In addition to the twenty full-course credits needed for graduation, extra credits will be awarded for each term. Students begin with a full academic year of study, then alternate study and work terms, and conclude with a final eight months of study. Exceptionally, with the agreement of the dean and co-ordinator, a fifth work term may be added. The work terms are arranged and scheduled by the Office of Co-operative Programmes but must be won by students in competition with co-operative students from other institutions. During work terms students gain experience in a wide range of departments in government, business enterprises or public agencies. Depending on their needs and abilities students work in areas such as accounting, administration, advertising, communications, economic development, finance, human resources/personal information systems, marketing, policy and strategic planning.

Careers in Administration

The college offers a significant number of courses which have been recognized as meeting part of the educational training of Chartered Accountants, Certified General Accountants and Certified Management Accountants. Appropriate co-op work terms with designated C.A. firms will be recognized by the Institute of Chartered Accountants of Ontario as part of their internship requirements.

Evaluation of Work Term

Performance on each work term is evaluated by both the employer and co-ordinator. Students must submit for evaluation a report for each work term which integrates knowledge gained during the work term with academic study already completed.

To maintain standing in the programme, to be eligible for a work term, and to receive specialist certification upon graduation, a student must:
- complete a full-time course of studies (at least two full-course equivalents and a minimum of 2.5) during the study term
- maintain a cumulative grade point average of 3.50
- receive a satisfactory evaluation for work term performance.

Notes:

1. EACH COURSE MAY BE COUNTED ONLY ONCE IN SATISFYING WORK PLACEMENT AND PROGRAMME REQUIREMENTS.
2. IT IS THE STUDENTS' INDIVIDUAL RESPONSIBILITY TO ENSURE THAT THEY HAVE COMPLETED THE CORRECT CO-OP TERMS TO MAKE THEM ELIGIBLE FOR EACH WORK TERM AND THAT THEIR WORK WAS COMPLETELY FULL-COURSE EQUIVALENTS AND MEET ALL THE REQUIREMENTS FOR GRADUATION.

Eligibility for Work Terms

To compete for a work term a student must be in good standing in the programme and must have completed:
- for the first work term: seven full-course equivalents, including one of ECOA02 or ECOA03, MGT202, MGT203, POLA30, and one of the courses from Section A, IV, below.
- for the second work term: nine full-course equivalents (including the above courses and MGT204, ECOA01, ECOA03, or ECOA04) for the third work term: eleven full-course equivalents including the above courses, a statistics half-course from Section A, B, below and MGT302.
- for the fourth work term: thirteen full-course equivalents including the above courses.

Curriculum

In the first two years of study all students follow a common core of studies (section A, below),
- beginning in the third year, students choose an advanced option (Section B, below) from the following fields of administrative studies: Economics, Political Science, and Management. The choice should be made on the basis of the student's career goals, personal interests and skills.
- advanced courses in Computer Science, Economics, Management, Mathematics, Political Science, Psychology, and Sociology have prerequisites so students must plan their studies with care.

Each student's curriculum requires the annual approval of the supervising officer. In addition, all course changes must be approved by the supervising officer.

If courses are not available, students should consult with the supervisor of studies for alternatives.

For the first year (Winter Session) a student's course selection will depend upon whether they have chosen, since ECOA02 has a prerequisite of MAT2A28 or MAT2A26. If EC0A02 is chosen, the student will also take MAT2A28, MGT202, MGT203, and either POLA30 or a course from Section A, IV, below.

If ECOA03 is chosen, a student will also take MAT2A28, MGT202, POLA30, and a course from Section A, IV, below.

A student must complete 15 full-course equivalents from the following curriculum in order to fulfill the academic requirements for this specialist programme. The remaining 5 full-course equivalents for the degree can be chosen from the entire range of courses in the Calendar.

*Calculates for MAT2A28 or MAT2A26 is an optional course for this programme.

Prerequisites will have to be met.
Examples:
- ANTH2155: Human Nature: An Anthropological Inquiry
- MGMT2100: Management Accounting
- MGMT2255: Organizational Design
- MGMT2460: Organizational Behaviour
- MGMT2500: Management Ethics
- PHL1500: Ethics 1
- PHL1505: Ethics 2
- PSYCH1100: Introduction to Social Psychology
- SOC3100: Sociology of Work & Industry

IV. HISTORICAL & CULTURAL FOUNDATIONS REQUIRED (2.0 full-course equivalents)
To be selected from the Humanities Division and must include HIS100Y4, Introduction to Canadian History.

B. ADVANCED OPTIONS (4.0 full-course equivalents)
To be selected from courses available in Political Science, Economics and Management, depending on the student's area of interest.

- No more than 3.0 full-course equivalents are to be from any one of these three disciplines.
- One course from among the 4.0 full-course equivalents must specifically deal with public administration or policy analysis (example: ECON2001, MGMT2100, POLSCI3500).

Selection is subject to approval by the supervisor of studies.

C. ELECTIVES (5.0 full-course equivalents)

ADM2000/200Y Administration Co-op Work Term

Work terms are an integral part of the co-op curriculum. Practical work experience in an appropriate field is alternated with study terms to enhance academic studies and develop professional and personal skills. Work terms are required at the completion of each work term. Continuation in the co-op program is based on a student's ability to meet both the academic and work term requirements. To be eligible for work terms, students must be in good standing in the program and must have completed a required number of courses. (For details, see page 37). Course credit of 0.5 full-course equivalent is granted for each four-month work period. Work term credits are in addition to the 20 full-course degree requirements and are granted on a Credit, No Credit basis. There are no additional course fees for work terms.

The Specialist (Co-operative) Programme in Arts Administration requires twenty academic courses (four years) of study and two work terms of four months each. Students complete 8.5 full-course equivalents in (A) the administrative field, 6.0 full-course equivalents in (B) the artistic field and 5.5 additional full-course equivalents from (C) an elective field. In addition extra credits are awarded for the work terms.

A. Administrative Field of Study
The following 8.5 full-course equivalents are required:
- ECON2000: Introduction to Arts Administration
- ECON2050: Cultural Policy
- ECON2055: Senior Seminar in Arts Administration
- ECON3100: Introduction to Economics
- ECON3150: Public Decision Making
- MGMT2100: Management Accounting
- MGMT2105: Financial Accounting
- MGMT2106: Managing People in Organizations: Concepts and Skills
- POLSCI2150: Managing Groups and Organizations
- ECON2000: Introduction to Canadian History

In addition, students are expected to use some of their elective field (C) to take further courses in administration. The following courses are recommended:
- ECON2000: Economics of the Public Sector
- ECON2050: Public Decision Making
- ECON2055: Senior Seminar in Arts Administration
- ECON3100: Introduction to Economics
- ECON3150: Public Decision Making
- MGMT2100: Management Accounting
- MGMT2105: Financial Accounting
- MGMT2106: Managing People in Organizations: Concepts and Skills
- POLSCI2150: Managing Groups and Organizations

Note that enrolment in the programme is limited. Interviews are held normally in May for students who pass the initial screening. Admissions are granted on the basis of applicants' academic performance, background in one or more of the arts, interest and potential ability in Arts Administration, and a letter of reference from a high school or post-secondary instructor. Facility in Mathematics at the high school level is highly desirable.
60 Co-operative Programme in Arts Administration

POLC401S Administrative Theories and Policy-Making
POLC403S Comparative Public Administration

Please note that many of the above courses require prerequisites and/or permission of instructor.

B. Artistic Field of Study

Six full-course equivalents from one of the following fields:
1. Drama
   Required:
   DRAB30Y An Introduction to the Functional Elements of Theatre
   DRAB26F The History of Theatre I: From Classical Antiquity to the Renaissance
   DRAB21S The History of Theatre II: From the Elizabethan Theatre to the French Revolution
   DRAB22F The History of Theatre III: From the French Revolution to the First World War
   DRAB23S The History of Theatre IV: Theatre in the Twentieth Century

2. English
   Required:
   ENGB11Y English Literature

3. Fine Arts
   Required:
   ENGB21Y Introduction to Fine Arts

4. Music
   Required:
   MUSY10Y Introduction to Music

5. Additional full-course equivalents from:
   - English
   - Drama
   - Music

C. Elective Field of Study

A further 3.0 full-course equivalent chosen in conjunction with the programme supervisor. The purpose of the elective field is to allow students some flexibility in shaping a degree programme to their interests and future needs. In making their choices students should remember that a working knowledge of a second language, especially French, may be particularly valuable. Students may choose one of the following options:

1. Courses chosen from a number of different subject areas with the aim of preparing breadth to the student’s programme.
2. A coherent selection of courses in one subject area.
3. Further concentration in the chosen artistic field (B), or in the administrative field. This option is particularly valuable for students wishing to complete the specialist requirements in their artistic field, or for students contemplating graduate study in the arts or in Business Administration. Students considering careers in a museum or graduate work in Museum Studies should use this option to take an approved programme of courses in art history, museum administration, and other relevant disciplines.

Students selecting either 2 or 3 will need to consult also with the programme supervisor in the chosen subject. The programme supervisor’s approval is required.

D. Student Study Abroad

Co-operative Programme in Arts Administration

Work terms

Work terms may begin in September, January or May and students are normally eligible for a work placement after their second year of study. The places of work will vary widely according to availability and to the needs and abilities of the student. Although the work placements are arranged by the co-ordinator of the Arts Administration Programme, they must be approved by the student in consultation with all appropriate authorities.

Performance on work terms will be evaluated by both employer and co-ordinator. Students must also submit at the end of each work term a report which integrates knowledge gained during the placement with academic study already completed (see AADC01 and AADC02).

Eligibility for work placements

To compete for work placement a student must be in good standing in the Programme and must have completed at least ten full-course equivalents including:

- two full-course equivalents from outside the artistic field
- AADH01Y (Introduction to Arts Administration)
- AABG02Y (Cultural Policy)
- MGTB02Y (Introduction to Management)
- MGTB01Y (Financial Accounting)

Normally students return to their studies after each work term, and must be registered in courses after the completion of their last work term. AADH01Y is taken after the completion of the first work term.

Standing in the programme

To remain standing in the programme, to be eligible for work placement and to receive special certification upon graduation a student must:

- maintain a cumulative point average of 2.5
- achieve a satisfactory evaluation for work term performance and work term report
- complete a full course of study (at least two full-course equivalents and normally 2.5) during each study term
- participate in special events and seminars arranged by the co-ordinator.

Courses in the first two years of the programme

The first year of study should consist of AADH01Y, one full-course equivalent from the artistic field, MGTB02Y, MGTB01Y, plus a foreign language course, or a further course in the artistic or administrative field.

The second year of study should consist of five full-course equivalents to include ECOA01Y, AADB02Y and a balanced mixture of administrative and artistic courses.

AABG01Y Introduction to Arts Administration

Telephone # 001-2063

An introduction to the theory and practice of arts administration in Canada.

The course will examine the context of the arts in society in general and in Canada in particular; the various elements of the cultural ecology in Canada, including arts organizations and government agencies; the history and current status of arts administration as a professional discipline; current issues and challenges facing the arts; and specific management skills and knowledge required for today’s arts manager including human resource management, marketing, fundraising, and financial management.

The course will provide students in the Co-operative Programme in Arts Administration with a broad overview of the field in preparation for placements. It will also be of interest to students in other programmes and disciplines interested in the arts and in management in the not-for-profit sector.

The course will involve lectures, guest speakers, class discussions. There will be readings and individual case studies, group projects and presentations, and individual assignments.

Exclusion: (HEM090) Session, Winter Day FBA

AADB02Y Cultural Policy

Telephone # 001-2063

An examination of culture and cultural policy in Canada and internationally from historical and contemporary perspectives.

The course will examine the history of cultural policy in Canada and internationally, differing views on the nature of culture and cultural policy and the role of government, critical and consumerist issues and policy directions and the process of policy development.

The course will provide an in-depth examination of policy issues facing the cultural industries and also be of interest to students in other programmes and disciplines interested in the arts and in public policy and administration.

The course will involve lectures, guest speakers, class discussion. There will be readings and case studies, individual and
**Co-operative Programme in Computer Science and Physical Sciences**

### Fees

Every student in a co-operative programme is required to pay additional fees established by the University of Toronto.

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<tr>
<th>Year</th>
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<td>Third Year</td>
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**The Specialist (Co-operative) Programme in Computer Science and Physical Sciences**

This programme requires twenty courses (four years) of study and two work terms of four months each. Exceptionally, with the agreement of the director and co-ordinator, a third work term may be allowed. Students are eligible for their first work term after their first two years of study. Opportunities for work placements are arranged by the Office of Co-operative Programmes but must be won by students in competition with all applicants for the position. Performance on work terms will be evaluated by both employer and co-ordinator. Students must also submit a report for each work term.

To maintain standing in the programme, they must be eligible for a work term, and to receive specialized supervision upon graduation a student must maintain a cumulative grade point average of at least 2.50.

### Admission to the Programme

Applicants may apply to the programme directly from secondary school or may apply as transfer students from college or first year university. The timing of work placements for students who receive transfer credits will depend upon the particular university course completed. When applying, applicants must indicate the specific course for this Scarborough Campus programme on the Application For Admission to the University of Toronto. Once the University of Toronto is notified of the application, candidates are sent an additional co-op application form to complete. This co-op application must be received by the Scarborough Campus Office no later than April 15 to ensure an applicant's consideration. In order to allow sufficient time for processing, it is, therefore, important that the applicant apply to the University of Toronto by March 1.

Note that enrolment in the programme is limited. Admissions are granted on the basis of the applicant's academic performance, background in relevant subjects, and a letter of reference from a high school teacher or university instructor. An interview may be required.

### Eligibility for Work Placements:

To compete for work term placement a student must be in good standing in the programme and must have completed at least ten full course equivalents.

Normally, students return to their...
Co-operative Programme in Environmental Science

Director: H. Wittmann (287-7107)
Supervisor: T. Price (287-7327)

Introduction
The programme is designed for students with a strong science background and a keen interest in the environment. It combines a strong academic science programme with practical work placements normally in Canada. The placements are held for four months during the first summer months following the second and third years of the programme. The objective of the programme is to produce technically well-trained students who have some real-world experience in Environmental Science. Students earn a four-year (20 credit) B.Sc. with specialist certification in Environmental Science.

Admission to the Programme
Applicants may apply to the programme directly from secondary school or may apply to similar students from other colleges or universities. When applying, students must indicate the special code for this Scarborough Campus programme on the Application Form for Admission To An Ontario University. Once the University of Toronto is notified of the application, candidates are sent an additional co-op application form to complete. This co-op application must be received by the Scarborough College Registrar’s Office no later than April 15 to ensure an applicant’s consideration. In order to allow sufficient time for processing, it is therefore important that the applicant apply to the University of Toronto by March 1.

Note: The enrollment in the programme is limited. Interviews will be held in May for students who pass the initial screening. Admissions is based on the basis of the applicant’s academic record and letters of reference from a high school teacher or university professor.

Fee
Every student in a co-operative programme is required to pay additional fees as established by the University of Toronto.

The Co-operative Programmes in Environmental Science
This programme requires 20 courses (4 years) of study, and two work placements each normally of 4 months duration. The placements follow the second and third years of the programme, and will start soon after the examinations in the spring term. Placements may be with:
- government agencies
- educational institutions
- industrial concerns
- environmental interest groups
- research organizations

The purpose of the placement is to give the student experience of the demands made on environmental scientists in a non-academic context, and to allow them to develop skills relevant to that particular job and situation. Students will develop an understanding of what that particular group needs from them, and a keen appreciation of the difficulties of applying theoretical ideas in a practical context.

Eligibility for Placements
To qualify for a first work placement, a student must:
- be registered in the EES programme;
- have completed the core requirements of the 1st and 2nd years of the programme;
- have a cumulative GPA of 2.50 or better.

In order to secure a second placement, students must have received a satisfactory assessment for their first placement.

Elective: 1 F.C.E.

Co-operative Programme in Environmental Science

Specialist Co-operative Programme in Environmental Science
Supervisor: T. Price (287-7327)
This programme is a response to the growing student interest and also to the new attitudes and demands of society. It has a strong base in fundamental sciences such as Physics, Mathematics and Chemistry, but emphasizes environmental disciplines such as Biology, Geology and Geography. The programme is interdisciplinary in nature, and as well as its "mainstream" content, includes courses in other relevant disciplines such as Environmental Economics and Environmental Law.

One of the major emphases of the programme is the importance of fieldwork and practical experience. Many of the courses reflect this, having strong field components; some are entirely in the field. There are obvious linkages between the Environmental Science Co-op Programme and other programmes such as the International Development Study Programme: the linkages between development and environmental issues are already generally acknowledged. The overall purpose of the programme is to provide education and training which will produce highly qualified scientists with good practical and field experience.

Year I: Baseline Studies in Environmental Science
CUM102Y General Chemistry
EES101F Introduction to Environmental Science
EES102S Introduction to Physical Geography
EES104S Life On Earth: Introductory Biology for Environmental Science
EES105F Planet Earth: An Introduction to Geology
MAT127Y Calculus
PHY101F Dynamics of Classical Systems

Elective: 5 F.C.E.

Suggestions:
ANT107Y The Ecological Perspective in Anthropology
ANT144Y Human Adaptability I
BIO106Y Evolutionary Biology

Year II: An Introduction to Environmental Systems
BIO122Y Fundamentals of Ecology
CUM105H Environmental Chemistry
EES101S Principles of Stratigraphy and Sedimentology
EES102F General Geomorphology
EES103S Principles of Climatology
EES104F Hydrology: Measurement, Estimation and Forecasting

STAR22F Statistics

Elective: 1 F.C.E.

Year III: Environmental Systems
EES103F Environmental Impact Assessment
EES105F Introduction to Soil Science
EES106F Remote Sensing
EES107F Geographic Information Systems
EES108F Biogeography and Diversity

Plus 1 F.C.E. from each of the following two subsets:
A: EES106S Field Camp I
EES110S Coastal Geomorphology
EES106S Quaternary Environments
EES107S Exploration Techniques in Hydrogeology
EES108S Palaeoenvironmental Determination
EES109F Soil Management in Temperate Regions
EES110S Tropical Soil Management and International Development
EES112F Glacial and Periglacial Geology

Environmental Science

Elective: Field Course in Biology
BIO123F Marine Biology - Habitats and Communities
BIO105F Limnology
BIO201F Plant Population Ecology
BIO202F Advanced Field Course in Ecology
BIO315F Advanced Field Course in Ecology

Elective: 1 F.C.E.

Suggestions:
ANT107Y The Ecological Perspective in Anthropology
ANT144Y Human Adaptability I
BIO106Y Evolutionary Biology

Year IV: Environmental Systems and Issues
EES103F Environmental Ecosystems and Law
EES105S Research Seminar in Earth and Environmental Science
PSC101F Policy Issues in Mathematics and Science

Plus 2 F.C.E.'s from:
BIO101F Vertebrate Morphogenesis
BIO103F Microbes in the Environment
BIO202F Invertebrate Zoology

Environmental Science

Elective: 1 F.C.E.
The Co-operative Programme in International Development Studies (B.A./B.Sc.)

**Objective**

The Co-operative Programme in International Development is intended for students with an interest in international development, in geography, ecology and economics, and in the relations of Canada with developing countries. The programme combines academic study in the social and ecological sciences with practical work experience in a developing country, and typically requires up to five years to complete. After eight to twelve month work placements, usually with a Canadian or Third World development agency, is an important part of the programme. One of the distinctive features of the curriculum is the integration of political, economic and social development studies with courses in ecological and physical resource management. International Development Studies students learn through both studies and practical experience about:

- economic development and social issues in developing countries
- management of natural resources in developing countries
- the geography, culture, language and history of the area in which they are interested.

The programme prepares students for employment with Canadian and international government and non-governmental development agencies and projects. It also provides background for further studies in environmental geography, economics and political science.

**Admission to the Programme**

Applicants may apply to the programme directly from secondary school or may apply while students in their first year at a university. The timing of work placements for students who receive transfer credit will depend upon the particular university course completion. When applying, applicants must indicate the specific school and cohort programme on the Application for Admission To Be Approved at the University of Toronto. Once the University of Toronto has notified the applicant, the student must apply to the Scarborough Campus programme on the Application for Admission To Be Approved at the University of Toronto. Once the Scarborough Campus programme has notified the applicant, the student must apply to the University of Toronto by the 1st of May for students who pass the initial screening. Admissions are granted on the basis of the applicant's 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.

**Fees**

Every student in a co-operative programme is required to pay additional fees as established by the University.

**The Specialist (Co-operative) Programme in International Development Studies**

This programme requires twenty courses (four years) of study and a work term of approximately ten 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 Programme. Work placements are arranged by the Office of Co-operative Programmes but must be approved by students in competition with all applicants for the positions. Students are responsible for financing part of the living expenses associated with placements. The length of placements will vary according to each student's discipline and regional preferences and abilities, the availability of positions, and the practicability and safety of development work. Students normally work with Canadian or Third World development agencies, universities, or research institutes in a developing country.

The objective of the work placement is to provide students with experience and appreciation of the practical difficulties of development work and the flexibility required in the application of theoretical concepts. Before the work term students must, in consultation with the Supervisor of Studies, develop a proposal for a research subject. A critical or standard paper on the research subject and it's possible to place the work on the programme experience is written during the final year as the Programme after students return from their placements. Performance on placements will be evaluated by the employer, the co-ordinator and the supervisor of studies. Shortly after their return, typically in September or October of the final year, they will submit a brief evaluation of their placement to the programme co-ordinator.

**Eligibility for Work Placements**

To compete for work placements a student must:

- have completed at least fifteen full-course equivalents including at least 10 from the core programme (Section A) and advanced options (Section B), and two full courses from the regional and language options.

After the work term students apply to their courses in the International Development Studies, Advanced Seminar and other courses as necessary to complete their degrees.

**To maintain standing in the programme and to receive specialisation**

- maintain a cumulative grade point average of 2.50
- write satisfactory evaluations for work placement performance and the research paper
- register as a full-time student during study terms

**Programme Requirements**

All students must complete:

- a common core programme (at least nine full-course equivalents) in resource management science development anthropology, economics and policies (Section A, below)
- an advanced option (at least three full-course equivalents) in either social sciences or ecological management (Section B, below)
- a regional language and culture option (Section C, below)
- IDESOY, an advanced seminar related to their work placement experience
- other elective courses (Section D, below)

**Notes**

1. Each course may be counted only once in satisfying work placement and programme requirements.

2. It is the student's individual responsibility to ensure that they have correctly completed the programme and that they have correctly completed their studies.

3. IDESOY, an advanced seminar related to their work placement experience.

In the first two years of study students must complete at least as many credits as the core programme and courses in the language studies as possible. The core programme contains three courses specially designed for International Development students: IDESOY/ International Development Studies, Political Economy, IDESGS/ International Development Studies, Physical and Ecological Resource Management, and IDECOMPS Project Management. Students must choose their...
Each student's programme requires the annual approval of the Supervisor of Studies. In addition, all course changes must be approved by the Supervisor of Studies.

The curriculum requirements are as follows:

A Core Programme: at least nine full-course equivalents from the following:

- Please note the courses on the following list are not open to students enrolled in the Programmes of International Development.
- Also note that students must comply with regulations regarding registering in courses on other campuses.
- In addition to the courses listed, students should be aware of the following recommended courses:
  - MG150Y Financial Accounting
  - EC151FS International Economics: Finance
  - EC152FS International Economics: Trade Theory
  - ECG34Y International Economics
  - ECG34H Water Resource Management
  - ECG35H Energy Environment Interactions
  - ECG35H Water Resource Management
  - ECG35H Energy Environment Interactions
  - ECG35H Water Resource Management
  - ECG35H Energy Environment Interactions
  - ECG35H Water Resource Management
  - ECG35H Energy Environment Interactions
  - ECG35H Water Resource Management

B Advanced Options: at least three full-course equivalents chosen from either I or II below:

I. Social Sciences:
- Three full-course equivalents from the following:
  - ANT104Y Social and Cultural Anthropology
  - ANT105Y Anthropological Fieldwork in Social and Cultural Anthropology
  - ANT106Y Medical Anthropology I: Illness and Healing in Cultural Perspective
  - ANT107Y Medical Anthropology II: Biological and Demographic Perspectives
  - ANT108Y The Anthropology of Food 1: Human Needs
  - ANT109Y The Anthropology of Food 2: Knowledge and Practices
  - ECO107Y Microeconomic Theory and Policy
  - ECO108Y Macroeconomic Theory and Policy
  - ECO109Y International Economic Institutions
  - ECO110Y Economic Development
  - ECO111Y Development Policy
  - ECO112Y Issues in Rural Development
  - ECO113Y Policies and Society in the Middle East
  - ECO114Y Women and Development

II. Ecological Resource Management:
- At least three full-course equivalents from:
  - ANT101Y The Ecological Perspective in Anthropology
  - ANT102Y Medical Anthropology I: Illness and Healing in Cultural Perspective
  - ANT103Y Medical Anthropology II: Biological and Demographic Perspectives
  - BIB102Y Fundamentals of Ecology
  - ECO104Y Introduction to Geology
  - ECO105Y Introduction to Climatology
  - ECO106Y Field Camp I: Costa Rica
  - ECO107Y Remote Sensing and Geographic Information Systems
  - ECO108Y Biogeography and Diversity
  - ECO109Y Hydrology, Physical Processes and Modelling
  - ECO110Y Hydrology, Physical Processes and Modelling
  - ECO111Y Climatic Change
  - ECO112Y Advanced Forest Ecology
  - ECO113Y Forest Soils II
  - *ECO114Y Airphoto Interpretation
  - *ECO115Y Biogeography
  - *ECO116Y Biogeography
  - *ECO117Y Environmental Change
  - *ECO118Y Environmental Change
  - *ECO119Y Environmental Change
  - *ECO120Y Environmental Change
  - *ECO121Y Environmental Change
  - *ECO122Y Environmental Change
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  - *ECO145Y Environmental Change
  - *ECO146Y Environmental Change
  - *ECO147Y Environmental Change

C Regional and Language Options:
- At least two full-course equivalents from courses dealing with a designated development region. One of these full-course equivalents should be in a language appropriate for work in developing countries. Students with a functional knowledge of an appropriate language may substitute non-language regional courses.

Students interested in courses on Africa, Asia, Latin America, the Middle East and in other languages and regions should consult the Supervisor of Studies. Selection of a region and courses is subject to approval by the Supervisor of Studies.
Drama

(D.A.)

Discipline Representative:
P. Spectrak (287-7165)
The Drama courses at Carborough College have been devised to serve both students who intend to specialize in Drama and Theatre studies and those who have a casual interest in the subject.

We offer two types of courses which complement each other: theoretical and practical. The theoretical courses are in the History of Theatre, in which the student becomes familiar with the development of the theatre from a non-literary point of view from its classical beginnings to the present day. These courses are integrated into courses in the dramatic literatures of several countries which are offered by members of the faculty who specialize in these areas. Advanced students may choose an independent Studies course or Directed Reading course, where they work individually under the supervision of their own tutor.

In the practical courses, students become acquainted with all aspects of theatre production in studio situations, both as actors and technicians. Students study both with faculty members and with professional artists and teachers. Participation in public productions at the College is encouraged.

Drama offers both a major and a specialist programme.

The specialist programme is intended for students with a serious interest in drama and theatre. Students with a general interest in the discipline are encouraged to consider the major programme.

Drama students may wish to refer to the following:

Specialist Programme in the Arts
Specialist Co-operative Programme in Arts Administration

Specialist Programme in Drama
Supervisor: P. Spectrak (287-7165)
A student is required to complete thirteen full-course equivalents, eleven in the area of Dramatic Literature and Theatre, and two in related disciplines, as follows:

1. DRA101Y (An Introduction to the Practical Elements of Theatre)
2. DRA320F (The History of Theatre I: From Classical Antiquity to the Renaissance)
3. DRA321S (The History of Theatre II: From Elizabethan Theatre to the French Revolution)
4. DRA322F (The History of Theatre III: From the French Revolution to the Twentieth Century)
5. DRA335S (The History of Theatre IV: Theatre in the Twentieth Century)
6. ENG101Y (Modern Drama)
7. ENG105Y (Modern Drama)
8. ENG105Y (Modern Drama)

The course equivalents are chosen from the following:

CLA100S (Ancient Drama: Comedy)
CLA100S (Ancient Drama: Tragedy)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>DRA07Y</td>
<td>The Art and Nature of Comedy</td>
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<tr>
<td>DRA20Y</td>
<td>Drama, Theatre, and Political Revolution</td>
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<tr>
<td>DRA25Y</td>
<td>Introduction to Asian Theatres</td>
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<tr>
<td>DRA27Y</td>
<td>Women in the Theatre</td>
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<tr>
<td>DRA27P</td>
<td>Science, Power, and Hall: The Story of Dr. Faustus on Stage</td>
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<tr>
<td>ENGB07Y</td>
<td>Shakespeare</td>
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<td>ENGB13Y</td>
<td>Canadian Drama</td>
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<td>ENGB31Y</td>
<td>English Drama to 1642</td>
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<td>ENGB35Y</td>
<td>Drama Since 1660</td>
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<tr>
<td>ENGB10Y</td>
<td>Studies in Major Writers</td>
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<tr>
<td>ENGB09Y</td>
<td>Ancient Epic: The Oral Tradition</td>
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<td>ENGB10Y</td>
<td>Ancient Epic: The Literary Tradition</td>
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<tr>
<td>ENGB11Y</td>
<td>Reading Literature: The 20th Century</td>
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<tr>
<td>HIS09Y</td>
<td>The European World: An Introduction to History</td>
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<td>HUMA07Y</td>
<td>Prologue</td>
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<td>HUMA07Y</td>
<td>Prologue II</td>
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<tr>
<td>CLA07Y</td>
<td>Greek and Roman Mythology</td>
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<tr>
<td>HUMB07Y</td>
<td>Introduction to the Classics</td>
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<tr>
<td>LING07Y</td>
<td>General Linguistics</td>
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<td>LING04Y</td>
<td>Introduction to Language</td>
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<tr>
<td>MUSA07Y</td>
<td>Introduction to Music</td>
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<td>PHIL03Y</td>
<td>Philosophy and Art</td>
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<tr>
<td>PSY01Y</td>
<td>Psychology</td>
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<tr>
<td>SOC07Y</td>
<td>Introduction to Sociology</td>
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</tbody>
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**Note:** No more than ten full-course equivalents in DR are permitted in the four-year degree.
metadrama, the emergence of realism in the theatre, nationalism, and anti-realist trends on stage, the Independent Theatre Movement. Attention will also be given to the staging of ballet and opera.

The principal text will be Oscar Brundt's History of the Theatre. Other texts will be announced. The course will be taught in lectures and tutorials. Exclusions: (DRA804), DRA2254, DRA2255

DRA2255 The Great Directors of the Theatre

Telephone ID: 04032023
A study of the theoretical statements and practical work of directors from 1850-1960. The course will explore the work of famous theatrical companies and directors of the nineteenth and twentieth centuries, including the so-called "famous" theatrical scenes such as music hall, vaudeville, baroque, and cinema.

Exclusions: (DRA804), DRA2254, DRA2255

P. Sporkordos

Offered 1995/96

DRA2256 Introduction to Asian Theatrical Traditions

Telephone ID: 04022253
The students will be introduced to some of the major theatrical traditions of the Orient, starting with the Sandhi dance theatre. The techniques of Chinese theatre (Taoism and Buddhism) and of Chinese opera (Peking Opera) will be surveyed, as well as the major Japanese theatrical traditions.

Exclusions: (DRA804), DRA2254, DRA2255

M. G. Schrader

Not offered 1995/96

DRA2219 Individual Studies in French Theatre and Drama in Translation

Telephone ID: 04030021
This course is designed to enable advanced students to concentrate on problems related to the staging of a French play. A portion of the course is devoted to working with TV tape equipment. A minimum of three hours weekly in formal groups, and additional time in rehearsal, will be devoted to advanced exercises in acting skills, scene work, and work on productions.

Exclusions: DRA2219

P. Sporkordos

Offered 1995/96

DRA2220 Advanced Workshop in Theatre Performance

Telephone ID: 04030005
A study of the theoretical statements and practical work of directors from 1850-1960. The course will explore the work of famous theatrical companies and directors of the nineteenth and twentieth centuries, including the so-called "famous" theatrical scenes such as music hall, vaudeville, baroque, and cinema.

Exclusions: (DRA804), DRA2254, DRA2255

P. Sporkordos

Offered 1995/96

Economics (B.A.)

Assistant Chair: T.B.A.
The Economics Department offers a wide variety of theoretical and applied courses. The curriculum provides an excellent background for careers in business, government, and the professions. Many of the courses are not intended exclusively for specialists in the discipline but are designed for students with very diverse interests.

There are certain courses that are central to the curriculum: the introductory course (ECO001Y or ECO007Y), the initial B-level courses - Price Theory (ECO030Y or ECO035Y), and Macroeconomic Theory and Policy (ECO040Y or ECO045Y), at least one course that provides a different perspective either on contemporary economic theory, or on ways of organizing economic activity - Economic History (ECO011Y or ECO012Y), the literature of Economics (SOC252Y or ECO252Y), Comparative Economic Systems (SOC258Y), and international trade.

In the first year, specialist students in Economics, Economics and Mathematics, Economics and Quantitative Methods, Management and Economics, and Management and Economic Theory should take ECO001Y (the mathematical version of ECO007Y or ECO001Y). Although students entering the Specialist in Economics and Management and Economics, and the Specialist in Macroeconomic Theory, will normally take MAT222Y in combination with ECO001Y, those specialists who are...
planning careers in Economics are encouraged to replace MAT256Y with MAT256Y (Calculus) and further math courses. Students who choose ECOA09Y (the non-mathematical version) may be able to enter those specialist programs once they have completed calculus. Economics Majors and Specialist in Economics and History and in Economics and Political Science do not require calculus, so that students may take ECOA09Y in their first year of those specialties.

Many courses in the Social Sciences complement courses in Economics so that students are urged to read the Calendar and, with the help of the Supervisor, to plan their programmes of study carefully.

Limited Enrolment

All economics specialist and major programmes have limited enrolment. Students admitted to these programmes are guaranteed access to enough courses to complete their programme. Remaining spaces in the courses are allocated to non-programme students on the basis of economics grades. Enrolment in the economics minor programme is not limited. However, access to some courses, especially the B-level requirement, is limited, so students in the minor programme may have to take that course during the summer session.

Admission to programme

1. Direct admission from secondary school

Those admitted directly to the Management and Economics stream must maintain a GPA of 2.0 or higher after completing 8 credits in an economics programme.

2. Other students

The Supervisor of Studies makes decisions on programme admission. Admission is on a first-come-first-serve basis. Transfer students are assessed at other times. Students with more than 10 credits who will normally be admitted to the economics major.

Non-programme students

However, non-programme students may still receive an economics major if they are able to complete the programme requirements. Non-programme students are warned that they will be admitted to B-level and C-level Economics courses only after programme students have registered for those courses and some courses may be unavailable, or available only in the summer. The Supervisor of Studies will not approve programme exceptions for non-programme students.

Specialist Programme in Economics

Supervisor: T.B.A.

NOTE: Registration in this Programme is limited.

Students must complete a minimum of four courses for this programme. Students with 4.0 course credits will be considered on the basis of GPA including ECO209Y and MAT262Y. Students with 7-10 course credits will be considered on the basis of GPA including ECO209Y, MAT262Y and at least one of ECO209Y and ECO210Y.

This Programme is designed for students considering the possibility of graduate work in mathematical economic theory. Students must complete at least twelve and a half full-course equivalents in Economics, Mathematics, Statistics, Computer Science and Humanities. The specific requirements are as follows:
- ECO209Y
- MAT262Y or (MAT271Y or (MAT257Y))
- MAT262Y
- CSC2006Y
- ECO209Y
- ECO210Y
- (MAT257Y and MAT2452S and MAT2453S) or MAT271Y
- MAT211P and MAT2442S and MAT2425S
- STAB22F and STAB475
- ECO211Y
- ECO209Y and ECO214S
- MAT2452S
- ECO2506Y
- One FCE in Humanities

Specialist Programme in Economics and Political Science

Supervisor: T.B.A.

NOTE: Registration in this Programme is limited.

Students must have completed a minimum of four courses to be considered for this programme. Students with 4.0 course credits will be considered on the basis of GPA including ECO209Y and MAT262Y. Students with 7-10 course credits will be considered on the basis of GPA including ECO209Y, MAT262Y and at least one of ECO209Y and ECO210Y.

This Programme is designed for students considering the possibility of graduate work in mathematical economic theory. Students must complete at least twelve and a half full-course equivalents in Economics, Mathematics, Statistics, Computer Science and Humanities. The specific requirements are as follows:
- ECO209Y
- MAT262Y or (MAT271Y or (MAT257Y))
- MAT262Y
- CSC2006Y
- ECO209Y
- ECO210Y
- (MAT257Y and MAT2452S and MAT2453S) or MAT271Y
- MAT211P and MAT2442S and MAT2425S
- STAB22F and STAB475
- ECO211Y
- ECO209Y and ECO214S
- MAT2452S
- ECO2506Y
- One FCE in Humanities

Major Programme in Economics

Supervisor: T.B.A.

NOTE: Registration in this Programme is limited.

Students must complete a minimum of four courses to be considered for this programme. Students with 4.0 course credits will be considered on the basis of GPA including ECO209Y and MAT262Y. Students with 7-10 course credits will be considered on the basis of GPA including ECO209Y and MAT262Y. Students with 11-15 course credits will be considered on the basis of GPA including ECO209Y, MAT262Y, and at least one of ECO209Y and ECO210Y.

This Programme is designed for students considering the possibility of graduate work in mathematical economic theory. Students must complete at least twelve and a half full-course equivalents in Economics, Mathematics, Statistics, Computer Science and Humanities. The specific requirements are as follows:
- ECO209Y
- MAT262Y or (MAT271Y or (MAT257Y))
- MAT262Y
- CSC2006Y
- ECO209Y
- ECO210Y
- (MAT257Y and MAT2452S and MAT2453S) or MAT271Y
- MAT211P and MAT2442S and MAT2425S
- STAB22F and STAB475
- ECO211Y
- ECO209Y and ECO214S
- MAT2452S
- ECO2506Y
- One FCE in Humanities

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Required courses in Political Science:
- POL205Y
- POL307Y

One full-course equivalent from any of the following fields:
- A) Canadian Government: POL161B,
- B) Polity and Political Theory:
- C) International Relations: POL160B,
- D) Comparative Politics: POL162C

"The maximum number of Economics and Political Science full-course equivalents that can be counted for the four-year degree is sixteen.

Specialist Programme in Management and Economics

Supervisor: T.B.A.

Registration in this Programme is limited. Selection will be based on all grades including the following prerequisite courses: MAT262Y, ECO209Y or ECO2403, and MAT262Y or MAT248.

Students who have completed more than ten credits will normally be considered for admission to the Specialist Programme. Please refer to Management.

Specialist Programme in Management and Economics: Business

Supervisor: T. Levitt

Registration in this Programme is limited. Selection will be based on all grades including the following prerequisite courses: MAT262Y, ECO209Y (though ECO209Y will be accepted in special cases), and MAT262Y or MAT248. Students who have completed more than ten credits will normally be considered for admission to this Programme. Please refer to Management.

Major Programme in Economics

Supervisor: T.B.A.

NOTE: Registration in this Programme is limited.

Students must have completed a minimum of four courses to be considered for this programme. Students with 4.0 course credits will be considered on the basis of GPA including ECO209Y and MAT262Y. Students with 7-10 course credits will be considered on the basis of GPA including ECO209Y and MAT262Y. Students with 11-15 course credits will be considered on the basis of GPA including ECO209Y, MAT262Y, and at least one of ECO209Y and ECO210Y.

This Programme is designed for students considering the possibility of graduate work in mathematical economic theory. Students must complete at least twelve and a half full-course equivalents in Economics, Mathematics, Statistics, Computer Science and Humanities. The specific requirements are as follows:
- ECO209Y
- MAT262Y or (MAT271Y or (MAT257Y))
- MAT262Y
- CSC2006Y
- ECO209Y
- ECO210Y
- (MAT257Y and MAT2452S and MAT2453S) or MAT271Y
- MAT211P and MAT2442S and MAT2425S
- STAB22F and STAB475
- ECO211Y
- ECO209Y and ECO214S
- MAT2452S
- ECO2506Y
- One FCE in Humanities
basis of GPA including ECO200Y, ECO204Y and at least one of ECO238Y, ECO239Y, ECO240Y, ECO241Y.

This program is designed to give a coordinated exposure to the subject matter of Economics to students pursuing the three-year degree or to those pursuing the four-year degree with more than a single area of concentration.

The program consists of six full-course equivalents in Economics, and one in Humanities. The Economics courses must include:
- ECO200Y or ECO238Y
- ECO239Y or ECO240Y
- ECO241Y or ECO241Y
- ECO345Y or all of ECO345Y, ECO346Y, ECO347Y, ECO348Y, ECO349Y.

Minor Program in Economics

Supervisor: T. B. A.

Note: Registration in this program is not limited. However, some requirements, particularly those at the B-level, may have to be taken in the summer session since access to courses in the winter session cannot be guaranteed.

This program is designed to give exposure to the subject matter in some areas of Economics to students pursuing three or four year degrees. These students will have to combine this minor with other minors or majors in order to graduate.

The program consists of four full-course equivalents in Economics as follows: ECO200Y or ECO238Y, ECO239Y or ECO243Y, ECO240Y or ECO241Y. 1 full-course equivalent at the C level in Economics 1 full-course equivalent at any level in Economics

ECO240Y Introduction to Economics: A Mathematical Approach

Telephone ID: 04310263
A study of economic principles and its application to contemporary Canadian economic problems. Problems discussed include unemployment, inflation, pollution, poverty, monopoly. A mathematical approach to economic analysis is used in this course and it is oriented principally towards students who plan to enter various special part of Management and in Economics.

ECO241Y Microeconomics and one of ECO346Y, ECO347Y, ECO348Y, ECO349Y.

ECO240Y Introduction to Economics

Telephone ID: 04310263
A study of economic principles and its application to contemporary Canadian economic problems. Problems discussed include unemployment, inflation, pollution, poverty, monopoly. A mathematical approach to economic analysis is used in this course and it is oriented principally towards students who plan to enter various special part of Management and in Economics.

ECO241Y Microeconomics and one of ECO346Y, ECO347Y, ECO348Y, ECO349Y.

ECO240Y Introduction to Economics

Telephone ID: 04310263
A study of economic principles and its application to contemporary Canadian economic problems. Problems discussed include unemployment, inflation, pollution, poverty, monopoly. A mathematical approach to economic analysis is used in this course and it is oriented principally towards students who plan to enter various special part of Management and in Economics.

ECO241Y Microeconomics and one of ECO346Y, ECO347Y, ECO348Y, ECO349Y.

ECO240Y Introduction to Economics

Telephone ID: 04310263
A study of economic principles and its application to contemporary Canadian economic problems. Problems discussed include unemployment, inflation, pollution, poverty, monopoly. A mathematical approach to economic analysis is used in this course and it is oriented principally towards students who plan to enter various special part of Management and in Economics.

ECO241Y Microeconomics and one of ECO346Y, ECO347Y, ECO348Y, ECO349Y.
ECO621F North American Economic History
Telephone ID: 04328163
A survey of important themes in the economic history of Canada and the United States. A comparative approach is employed to develop these themes as the role of natural resource staple industries, and urbanization, and the relationship of the scale to economic change in the two countries.
Prerequisite: ECO3002A
Session: Winter Evening

ECOQ1Y Economics
Telephone ID: 04331163
A formal development of multiple regression analysis using matrix algebra. Application of statistical techniques in testing economic theories. The implications and treatment of special statistical problems that arise in estimating economic relationships. A research paper is required.
Prerequisites: ECO6035 or ECO8075 or ECO8076, ECO8085, ECO8150 or permission of instructor
Session: Winter Day

ECOQ1SF Advanced Microeconomics Theory
Telephone ID: 04331133
An upper level extension of the ideas studied in ECO6033. The course offers a more sophisticated treatment of such topics as equilibrium, welfare economics, theories of the firm, linear programming, income distribution, risk and uncertainty.
Prerequisites: ECO6035 or ECO6046; ECO6113, ECO6261 (MAT271) or (MAT272) or (MAT275)
Session: Winter Day

ECOQ1S Advanced Macroeconomic Theory
Telephone ID: 04331453
Post-Keynesian developments in macroeconomics (including monetary theory, empirical testing of Keynesian and post-Keynesian macroeconomic theories, and the uses of macroeconomic models.
Prerequisite: ECO6035
Session: Winter Day

ECOQ20F Economics of the Media
Telephone ID for ECOQ20F: 04332003
Telephone ID for ECOQ20F: 04332003
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.
Prerequisites: ECO6035 or ECO8046 or ECO8070 or ECO8085 or permission of instructor
Session: Winter Evening

ECOQ26F History of Economics I: Origins of Modern Economic Theory
Telephone ID: 04332633
A study of classical literature of Political Economy between 1780 and the 1910s, especially the work of Jevons, Walras, Marshall, Wicksteed and the early Keynes.
Prerequisite: ECO6035.
Prerequisites: ECO6035 or ECO6046 or ECO6107 or ECO6108, ECO8035 (whichever is not used to satisfy the prerequisites).
Session: Winter Evening

ECOQ28S Economics of the Public Sector: Taxation
Telephone ID: 04333153
A course concerned with the revenue side of government finance. In particular, the course deals with existing tax structures, in Canada and elsewhere, and with criteria for tax design. Limited enrolment: 60.
Prerequisites: ECO6035 or ECO6046
Session: Winter Day

ECOQ29S Economics of the Public Sector: Expenditure
Telephone ID: 04332323
A study of the process of resource allocation in 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.
Prerequisites: ECO6035 or ECO6046
Session: Winter Day

ECOQ37F Law and Economics
Telephone ID: 04333753
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: the law of contracts, torts, property rights, environmental law, contracts, torts, product liability and consumer protection, criminal law, and procedure. Limited enrolment: 60.
Prerequisites: ECO6035 or ECO6046 (ECO6035 will be accepted as a prerequisite when ECO307 is taught in the second term of the winter session)
Session: Winter Evening

ECOQ39F Industrial Organization
Telephone ID: 04334333
The economics of the firm as a market environment. The aim is to study business behavior and market performance as influenced by concentration, entry barriers, product differentiation and diversification.
Limited enrolment: 60.
Restrictions: ECO307. Prerequisite: ECO8046 or ECO8085
Session: Winter Day

ECOQ46F Monetary Economics
Telephone ID: 04334833
This course examines monetary theory and institutions focusing on the relationship among money, prices and economic activity. Topics include: money supply determinations and relevance; a detailed examination of the demand for and supply of money, the term structure of interest rates, targets and instruments of monetary policy, the use of rules versus discretionary monetary policy.
Limited enrolment: 60
Restrictions: ECO357. Prerequisite: ECO6046 or ECO8085
Session: Winter Day

ECOQ51F Labour Economics I
Telephone ID: 04351333
Applications of the tools of microeconomics to various labour market issues. Topics covered will include: fertility and family formation; labour supply; labour demand; equilibrium in competitive and non-competitive markets; non-market approaches to the labour market; unemployment; policy applications will include: income maintenance programs; minimum wages; unemployment insurance benefits; poverty.
Limited enrolment: 60.
Restrictions: ECO6046 or ECO8046
Corequisites: ECO6070 or ECO8085
Session: Winter Day

ECOQ523 International Economics II
Telephone ID: 04352023
An outline of the standard theories of international trade: analyses of the factors on which a country's trade with other countries is based, and the implications of these factors on the international economy. The effects of changes in economic growth and internal trade. The instruments and effects of international trade (tariffs, quotas, non-tariff barriers); the theory of customary union. Limited enrolment: 60.
Prerequisite: ECO6046 or ECO8046
Session: Winter Day

ECOQ535 International Economics I: Finance
Telephone ID: 04353513
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 flexible exchange rates: the forward exchange market, the international monetary system, fixed "versus" flexible exchange rates; international capital movements and their implications for monetary policy. Limited enrolment: 60.
Restrictions: ECO357, ECO6070 or ECO6085
Session: Winter Day

ECOQ62F International Economics: Trade Theory
Telephone ID: 04362233
An outline of the standard theories of international trade: analyses of the factors on which a country's trade with other countries is based, and the implications of these factors on the international economy. The effects of changes in economic growth and internal trade. The instruments and effects of international trade (tariffs, quotas, non-tariff barriers); the theory of customary union. Limited enrolment: 60.
Prerequisites: ECO6046 or ECO8046
Session: Winter Day
English 83

ECO364F Economic Development
Telephone ID #: 04358653
An introduction to the processes of growth and development in less developed countries and regions. Topics include the role of international trade and investment in developing countries, the problems of population growth and unemployment, inequalities in income distribution, the roles of agriculture and industry. Limited enrollment: 60.
Enthusiasm: ECO324
Prerequisites: ECO303 or ECO304
Session: Winter Day
ECO367F Development Policy
Telephone ID #: 04357653
A consideration of how government policy can affect the pace and nature of development in Third World countries. Emphasis will be on the most important policies including those relating to population growth, international trade and investment, public finance, education, and technology. Limited enrollment: 60.
Enthusiasm: ECO324
Prerequisite: ECO350
Session: Winter Day

ECO361H Workshop in Economic Research
Telephone ID #: 04345043
This course discusses with students the techniques used by economists to define research problems and to do research. In the first term, various members of the staff will discuss their approaches to research. At the end of the term, students will choose a research problem and a faculty member with whom to work. During the second term, students will write research papers on their topic and present their ongoing work to other members of the staff.
Prerequisite: ECO304 and ECO308 (or ECO303 and ECO307 or ECO312). This course should be taken among the last 8 courses of a twenty course degree.
Session: Winter Day
ECO311F and ECO312S Supervised Reading
For upper-level students whose interests are not covered as one of the other courses normally offered. Students are expected to design the course with the instructor of a staff member interested in the area of study being proposed. The course will normally be made available only to students whose performance in Economics courses has been well above average. Students interested in supervised reading courses are urged to contact faculty members well in advance, as not all faculty will be available for these courses in any single term.

Students are advised that they must obtain consent from the supervising instructor before registering for this course.
Session: Summer Day, Summer Evening, Winter Day, Winter Evening

Courses Not Offered in 1994/95

ECO360S Comparative Economic Systems
Exclusion: ECO303
Prerequisite: ECO301 or ECO302 (ECO301)
Corequisite: ECO306

ECO362Y European Economic History
Exclusion: ECO329
Prerequisite: ECO303 or ECO304 or ECO305 or ECO307 or ECO308
Corequisite: ECO303 or ECO304 or ECO305 or ECO307 or ECO308 (whichever is not used to satisfy the prerequisite)

ECO363F History of Economics I: Adam Smith to Karl Marx
Exclusion: ECO322
Prerequisite: ECO302 or ECO304 or ECO305 or ECO307 or ECO308
Corequisite: ECO303 or ECO304 or ECO305 or ECO307 or ECO308 (whichever is not used to satisfy the prerequisite)

English (8.4)

Discipline Representative: J. Kay (237-7157)

The study of English encompasses English, Canadian, and American literatures as well as other literatures written in the English language. The curriculum offers a broad range of courses designed to enable students to gain a comprehensive knowledge of a rich literary tradition. In addition, a range of courses is available in our rich tradition of many literatures which use the English language as the medium of expression.

Specialist Programmes in English
Supervisor: J. Kay (237-7157)

Ten full-course equivalents in English and two or more in other disciplines in the Division of Humanities are required. They should be selected as follows:
1. ENG314Y Reading Literature: The 20th Century
2. ENG362Y Critical Thinking
3. ENG365Y English Language: Historical Survey
4. ENG361Y English Literature Current
5. Five additional full-course equivalents in English at the A, B, or C-level, including:
   a) two full-course equivalents in periods before 1800, one of which must be at the C-level (see list B)
   b) two full-course equivalents in periods after 1800, one of which must be at the C-level (see list B)
   6. One further full-course equivalent in English at the D-level

Two full-course equivalents in other Humanities disciplines.

The following are particularly recommended
CLA101F Greek and Roman Mythology
CLA106F The Classical Element in English
CLA201F Ancient Drama: Comedy
CLA202F Ancient Drama: Tragedy
CLA361Y Ancient Epic: The Oral Tradition
CLA401F Ancient Epic: The Literary Tradition
ENG102Y Britain from the Eighteenth Century to the Present
ENG237Y Tudor and Stuart England (Prerequisite: One B-level history course)
HUM201Y Prolegomena
HUM301Y Prolegomena II: East Asia and the Middle East
LNG301Y General Linguistics
PRL301F Philosophy and Art
PRL302F Philosophy of Literature
WST401Y Introduction to Women's Studies

Alternatively, students are encouraged to follow a sequence of language courses in fulfillment of this requirement.

Major Programmes in English
Supervisor: J. Kay (237-7157)

Seven full-course equivalents in English are required. They should be selected as follows:
1. ENG314Y Reading Literature: The 20th Century
2. ENG362Y Critical Thinking
3. ENG365Y English Literature: Historical Survey
4. Three additional full-course equivalents in English at the B, or C-level, one of which must be at the C-level. These three courses must include:
   a) one full-course equivalent in periods before 1800 (see list A)
   b) one full-course equivalent in periods after 1800 (see list B)
5. One full-course equivalent in English at the D-level

LST B.

Pre-1800 courses:
ENG101Y Shakespeare
ENG130Y Chaucer
ENG332Y Poets and Poetry of the English Renaissance 1500-1660
ENG331Y English Drama to 1642
ENG369Y British Literature of the Early 18th Century
ENGL317Y English Literature of the Late 18th Century

ENGL398Y Fiction before 1832

LIST B: Post-1800 courses:
ENGL370Y Canadian Literature in English: An Introduction
ENGL381Y American Literature: An Introduction
ENGL208Y Contemporary Literature in English: Africa and the West Indies
ENGL219Y Contemporary Literature in English: Australia and India
ENGL225Y The Canadian Short Story
ENGL226Y Canadian Drama
ENGL241Y The Short Story
ENGL242Y Canadian Fiction in English
ENGL242Y Major American Authors
ENGL242Y The Romantics
ENGL242Y Victorian Poetry
ENGL467Y Fiction 1832-1900
ENGL307Y Modern Drama
ENGL311Y Twentieth-Century Poetry
ENGL327Y Fiction 1900-1960
ENGL313Y British Fiction Since 1940
ENGL415Y American Fiction Since 1940
ENGL435Y Drama Since 1960

ENGAA1Y Reading Literature: The 20th Century
Telephone ID #: 05152063
An introduction to literary and cultural concerns in the twentieth century through a study of selected works written in English from the beginning of the century to the present day.

ENGAA2Y English Literature: Historical Survey
Telephone ID #: 05352063
A survey of English literature from the Middle Ages to the twentieth century, in the context of relevant intellectual, aesthetic, social, and political developments.

ENGBO1Y Critical Thinking and Writing
Telephone ID #: 05152063
Through the reading of poetry, fiction and essays students will learn how to discuss works of literature, and how to present their views accurately and cogently in writing.

ENGBO2Y American Literature: An Introduction
Telephone ID #: 05520863
A broad survey of the development of literature in America from the early Colonial period to the twentieth century.

ENGBO3Y A study of at least eleven plays by Shakespeare, both as unique works of art and in the larger context of his work as a Renaissance dramatist. A list of texts will be available in 21525A.

ENGBO1Y Shakespeare
Telephone ID #: 05352163
A study of at least eleven plays by Shakespeare, both as unique works of art and in the larger context of his work as a Renaissance dramatist. A list of texts will be available in 21525A.

ENGBO1Y Varieties of Drama
Telephone ID #: 05521163
A study of drama from ancient Greece to the present day.

ENGBO1Y Which course introduces students to a wide range of drama through the study of at least twelve plays, including Sophocles, Oedipus the King; Aristophanes, Lysistrata; and Moliere, Dr. Faustus. Other plays will be selected from the work of modern dramatists, including Heckett, O'Neill, Pinter, Shaw, and at least one Canadian writer.

ENGBO1Y The course will encourage discussion of genres such as comedy and tragedy, methods such as allegory, explication and realism, and the theatrical production of texts.

ENGBO5Y The Canadian Short Story
Telephone ID #: 05322553
A study of contemporary short stories written by Canadian authors.

ENGBO6Y Reading the short story through the ages, with an emphasis on the period from 1960 to the present.

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ENGBO5Y The Canadian Short Story
Telephone ID #: 05322553
A study of contemporary short stories written by Canadian authors.

ENGBO6Y Reading the short story through the ages, with an emphasis on the period from 1960 to the present.
issues such as "women's writing," and women's relationship to language and a literary tradition that has historically been male dominated. Selections from: Kate Chopin, Elizabeth Gaskell, Toni Morrison, Alice Munro, Sylvia Plath, Christina Rossetti, Mary Shelley, Olive Schreiner, Amy Tan, Mary Wollstonecraft, Alice Walker, Virginia Woolf.

Exclusion: ENG258
Session: Winter Day
T.B.A.

ENG202Y Canadian Fiction in English Telephone ID: 05350263
A study of Canadian fiction from its origins in the eighteenth century, through the search for form and tradition in the nineteenth and early twentieth centuries, to the contemporary period of new exploration and consolidation. The course examines authors confronting the problems of finding a fictional form and voice for their responses to Canada and of locating themselves in a viable tradition: it focuses on several contemporary novelists both in terms of that tradition and through close readings of specific novels. Texts will include Ross, At for Me and My House; Callaghan, Stotter; Maclean, Two Solidaires; Atwood, Surfacing; Ondaatje, Running in the Family.
Exclusion: (ENG327)
Prerequisite: ENG301, ENG302
Session: Winter Evening
M. Godzika

ENG203Y Chaucer Telephone ID: 05351963
Prerequisite: ENG301, ENG302
Session: Winter Day
E.P. Viceri

ENG207Y English Drama in Sixteenth Telephone ID: 05351303
A historical study of English drama from its beginning in medieval religious plays through the full flowering of Elizabethan and Jacobean tragedy and comedy to the closing of the theatres in 1642. and its history in the eighteenth century.
Exclusion: (ENG206)
Prerequisite: ENG301, ENG302
Session: Winter Day
J. Key

ENG206 Fiction 1620-1800 Telephone ID: 05354668
A study of the development of the English novel in the Victorian period. This course covers an understanding of the English novel in its most assured period of creation through the study of the following works: C. Bronte, Jane Eyre; E. Bronte, Wuthering Heights; Trollope, Vanity Fair; G. Eliot, Middlemarch; Dickens, David Copperfield; Hard Times; Carroll, Alice in Wonderland; Thackeray, Far from the Madding Crowd; Jude the Obscure; Moore, Esther Waters. Students are advised to read as many of these novels as possible before classes begin.
Exclusion: (ENG316)
Prerequisite: ENG301, ENG302, or ENG314; or H31201
Session: Winter Day
J. Miller

ENG205 Drama Since 1900 Telephone ID: 05355553
A study of developments in drama from 1950 to the present. In this course we will study the current trends in a period in which a literary tradition essentially aristocratic and classical confronted a social structure and readership increasingly middle class. Among other subjects we will consider: the high note of Pope and Swift; the growth of magazine writing; the changes and decline in drama because of government censorship; the rise of the novel; the close involvement of literature with politics, morality and social values. To help understand the period there will be lectures on selected topics in music, art and architecture.
Exclusion: (ENG327)
Prerequisite: ENG301, ENG302
Session: Winter Day
W.J. Howard

ENG246Y The Romantics Telephone ID: 05342426
A study of the verse and non-fiction prose of the turbulent period of 1790-1832. The core of the course is the lyric, narrative, and dramatic poetry of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats. Selections from the prose works of the other authors are included to shed light on the great poets and to provide a broader understanding of the period as a whole.
Exclusion: (ENG305)
Prerequisite: ENG301, ENG302
Session: Winter Day
J. Key

ENG240 English Literary Criticism Telephone ID: 05340610
A study of the central issues of literary theory and criticism, their impact in English literary history, and their relationship to European thought. What are the major issues and movements in literary theory? How have the questions critics have asked changed over time? The course aims at discussing the assumptions about literature and writing that are reflected in any critical position. Readings will be selected to acquaint students with both current critical debates and the history of theory and criticism.
Exclusion: (ENG59), ENG270
Prerequisite: ENG201, ENG202, ENG301, ENG302, and two further full-course equivalents in English.
Session: Winter Day
G. M. Leonard

ENG250 English Literary Dissert Telephone ID: 05415536
An examination of five or six Shakespeare plays from the period 1590-96. These plays are considered in the light of their theatrical and dramatic antecedents, as well as in terms of the Shakespearean drama they prefigure.
Limited enrolment: 20
Exclusion: (ENG316)
Prerequisite: ENG301, ENG302, and two further full-course equivalents in English or ENG314; or ENG323 (ENG312)
Session: Winter Day
A.J.G. Paterson

ENG265 Power and Perception: Imperialism, Colonialism and Identity in 20th Century Fiction Telephone ID: 05542523
An exploration of multi-cultural perspectives on issues of power, perception, and identity as revealed in literary depictions of imperialism and colonialism in 20th century fiction. Selections will be deliberately varied both in terms of culture and nationality to explore varying and contradictory depictions of the intersection of, and the relationship among, structures of power, cultural assumptions, and myths about identity in such diverse writers as Rudyard Kipling, H. Rider Haggard, V.S. Naipaul, Joseph Conrad, James Joyce, Jean Rhys, Chinua Achebe, George Orwell, Kathy Acker. The point is not to determine whose view is "correct" but rather to deepen our appreciation of how these diverse authors attempt to establish or seek to challenge assumptions and preconceptions about the supposed "essence" or "common" identity of "the human condition." Selected writings by contemporary literary theorists such as Said, Foucault, Larkin, Engarguy, Benjamin, de Certeau and Baudrillard will be used to augment and refine our approach to this theme.
Limited enrolment: 20
Prerequisite: ENG301, ENG302 and two further full-course equivalents in English.
Session: Winter Evening
G. M. Leonard
ENG117 French and Canadian Women Writers

A course which will draw on the work of female writers in French and Canadian contexts. It will explore the ways in which these writers have adopted and created fictional strategies to express their particular concerns. Texts include Hemon, Their Eyes Were Watching God, Martha chartier for the Widow, Morrison, Beloved. Songs of Solomon, Naylor, The Women of Brewster Place, S.Davis, Beezy Brown. Walker, The Color Purple, The Temple of My Familiar. Limited enrolment: 35.

Prerequisites: ENG091, ENG092, and two further full-course equivalents in English; or any two of ENG101, ENG102, ENG103, ENG104, ENG105, ENG106, ENG107.

Session: Winter Term

ENG118 The Arthurian Legend in English Literature

Telephone ID #: 05548813

The theme of King Arthur and the knights of the Round Table traced through several centuries as works of various genres. The legendary stuff of Arthur still has power to captivate writers and readers, and is the subject of books, poems, films, and plays in our own time. This course begins by looking at present-day recreations in such works as Camelot and T.H. White’s The Once and Future King. From there it turns back to earlier handlings of the myths, beginning with medieval Celtic, English, and French treatments of “The Matter of Britain,” and moving down to the Renaissance and Modern periods. It attempts to relate these to historical facts and cultural ideals. The relevance and meaning of these legends for people of different periods will be a subject of inquiry.

Prerequisites: ENG101 and ENG102, and two further full-course equivalents in English.

Session: Winter Term

ENG119 Political Drama in the Age of Thatcher

A survey of a variety of contemporary British plays written during the period of political climate in Britain. Eight plays, employing dramatic methods from agit-prop to terrorism, will be studied, drawn from the works of Barker, Birch, Cracknell, Fiddes and others.

Limited enrolment: 10.

Prerequisites: ENG101, ENG102, and two further full-course equivalents in English; or ENG180 (ENG101), ENG182.

Session: Winter Term

ENG120 Early Canadian Women Writers

A study of neglected prose and prose fiction written by women in the nineteenth and very early twentieth centuries. Reading will include works by a few better known authors: Moodie, Brooke and Trail, but will concentrate on lesser known. The following selected works: Lippincott, Alice: The House of Mirth; Morrison, Purple Springs: Devon: A Daughter of Today; Johnson: Legends of Vancouver: Bestwick: St. Uradho’s Convent: Fether: Kercheif to Hunt: Stoud: A selection of short stories, sketches and critical readings will help in forming a picture of the female writer as well as the women writer of the pre-modern era in Canada.

Limited enrolment: 20

Prerequisites: ENG101, ENG102, ENG103, ENG105, ENG106.

Session: Winter Term

ENG121 Language of Starch

Telephone ID #: 05548803

The South has traditionally been conceived of as a separate and distinctive culture in the U.S. This course will explore the bases and validity of the Southern myths from a broad historical, sociological and geographical perspective while focusing on the poetry, pros and drama of writers in the Southern States. Among the authors and topics to be considered are: the presence and status of the Southern folk artists and "Reconstruction" novelists: Ellen Glasgow; the "Africanist": the "Fugitive" group: Hunsaker C.Voss; Tabora Wray; Thomas Wolfe; William Styron; William Faulkner; Tennessee Williams; Walker Percy. A complete reading list will be available in May in the Humanities office.
Environmental Science (B.Sc.)

Discipline Representative: K. Howard (287-7233)

The study of the environment and its evolution is of extreme importance to our continued habitation of the planet earth. To understand this problem requires significant background spanning many scientific areas of study. Problems such as diminishing and polluted water supplies, acid rain and coastal erosion, disposal of household, industrial and radioactive wastes are related to an insufficient understanding of near-surface geology and geophysical processes. These sources of pollution act both on the human population and all other living species on the earth and thus require careful study of both the biology of the particular contaminant and the effect on all ecological systems being either a primary or secondary impact. Thus the Environmental Science Discipline involves Earth Sciences, Climatology, and Environmental Biology. In addition, close connections are maintained with other relevant disciplines, such as Chemistry.

Two Specialist Programmes are offered in addition to a Major Programme. The Environmental Science Programme provides a balanced emphasis on both the earth and biological science aspects of environmental science. This reflects the strong interdisciplinary requirements of an integrated approach to the study of the environment. Thus not only must there be a strong understanding of the causes and effects of the deterioration of the earth's environment, but a strong understanding of the actual modes of impact on the biological world, both at the macro and cell levels and at the ecological system level.

The Environmental Earth Science Programme provides an in-depth study of the earth's materials and of the earth's surface, and the processes involved. Sedimentary, hydrogeological and geological - that shape and determine the environment as we experience it today. While programs emphasize the earth science aspects of the problem, it remains a strongly interdisciplinary nature.

A Programme in Environmental Chemistry is also offered for those students interested in the mechanisms that lead from our modern way of life to the introduction of pollutants into the atmosphere and water systems of the earth.

Please refer to the Physical Sciences section of the Calendar for the following programmes:

- Specialist Programme in Environmental Science
- Specialist Programme in Environmental Earth Science
- Specialist Co-op Programme in Environmental Science
- Major Programme in Environmental Science

Note: Commencing September 1993.

Geology and Physical Geography programmes and courses were restructured to form the new Environmental Science Discipline and new Environmental Science Programmes.

EESA05 Introduction to Environmental Science

Telephone ID # 36310103

An introductory course which integrates subject matter and concepts from diverse scientific disciplines to provide a coherent framework for analyses of environmental issues, environmental management and policy development. The course examines changes in scientific and societal attitudes to the environment and the development which have led to the current critical state of the environment. The processes of human impact on ecosystems functioning are examined and the environmental sustainability of societal patterns is critically analysed at local, regional and global context. Critical current issues such as the nature of evidence of environmental degradation and the comparability of scientific method and regulatory responsibility will be examined within the framework of specific case histories.

Lectures: 2 lectures, two hour laboratory or tutorials
Session: Winter Day
R. Bryan and T. Price

EESA05 Introduction to Physical Geography

Telephone ID # 36310253

A consideration of the flow of both energy and mass through natural systems is used to explain system characteristics, from the shape of the landscape to the generation of weather. The physical and biological processes forming natural systems are considered to help different scales, from soil erosion at the field level to plate tectonics. The impact of human activity on system processes is also served, with particular reference to vegetation change, soil degradation and atmospheric pollution.

Two hours of lectures per week and two hours of laboratory time every two weeks.

ESAE05 Planet Earth: An Introduction To Earth Science and Environments Through Time

Telephone ID # 36310103

Planet Earth provides the basic physical environment in which we all live. An understanding of geologic processes is essential to solutions to many environmental problems. The course deals with the composition, structure and origin of the Earth and the physical processes that operate on and in it. The chronology of succession of physical events on Earth as revealed in the rock record are highlighted.

Instructor: D. G. Crook, 140, 141, 142
Prerequisite: None, but one OAC Mathematics and OAC Chemistry or Biology or Physics are recommended.
Session: Winter Day
N. Eyles

ESAE05 Life on Earth: Introductory Biology for Environmental Scientists

Telephone ID # 36310453

This course will introduce students to the fundamental principles of biology from an environmental perspective. Lecture topics will include cell structure and function, genetics and development, plant form and function, animal form and function, evolution and diversity, and ecology. Examples used to illustrate these concepts will focus on the manner by which these biological systems (physiological, genetic, etc.) can be influenced by environmental factors.

Two 1 hour lectures, three hour laboratory or tutorial
Exclusion: Students with prior credit in 1000 level may need EESA04 for credit.
Session: Winter Day
R. Fulthorpe

ESAE05 Geological Hazards

Telephone ID # 36310553

This course will focus on the geological background and possible solutions to major hazards affecting the environment, including such topics as landslides, erosion, earthquakes, volcanic eruptions and associated impacts, flooding, glaciation and future climate change, subsidence, and the disposal of toxic wastes. It will be of interest to a wide range of students in the life, social, and physical sciences, and offers an opportunity for the non-specialist to understand baseline making geological events of topical interest. No prior knowledge of the Earth Sciences is required.

Instructor: G. Crook, G. Goodwin
Session: Winter 1993
A. McKee

ESAE05 Understanding Ancient Environments: Principles of Sedimentology and Stratigraphy

Telephone ID # 36320133

Sediments and sedimentary rocks provide a record of environmental change over the last 5000 million years. This course provides a fundamental understanding of the wide range of sedimentary environments found on planet Earth and their stratigraphic record. Techniques of describing and dating sedimentary strata will be demonstrated along with local field excursions. This course will interest students in life and physical sciences.

Instructor: D. G. Crook
Session: Winter Day
N. Eyles

ESAE05 Introduction to Geomorphology

Telephone ID # 36320233

This course will focus on the description of selected geomorphic processes and landform patterns in terms of the landscape evolution and the factors that control geomorphic processes. The course will emphasize the importance of concept development and will include guest lectures by leading geomorphologists.

Instructor: E. ESA05 Group
Session: Winter Day
B. Green

ESAE05 Principles of Climatology

Telephone ID # 36320553

A scientific analysis of Earth’s climate through study of the governing physical and dynamical controls. The first term focuses on basic theory of Earth’s climatology. Major topics include: atmospheric circulation, the greenhouse effect, significance of atmospheric radiation, physical controls on surface and regional energy budgets, atmospheric moisture and clouds development, and atmospheric circulation including air mass and front concepts and upper air circulation. The second term examines Earth’s major
climates. Topics include comparisons and contrasts of mid-latitude Temperate climates, and Asian/African monsoons. The remainder of the term is devoted to an examination of the nature and theories of climatic change.

Two hours of lecture per week, additional laboratory or seminar as needed.

Prerequisite: ESSA201 (Geography) or an A-level science course with permission of instructor.

Session: Winter Day
W. Graham

EESD506 Hydrology: Measurement, Estimation and Forecasting
Telephone ID: 36330241
The water and energy balances are considered as the basis for the measurement of the flows of water through the terrestrial part of the hydrologic cycle, and the measurement of the components of both balances is described. Conventional or operational modelling of hydrologic processes is considered, as well as the application of these techniques in related fields. Emphasis is placed on the measurement and estimation of water fluxes at the drainage basin scale. The course objectives include a better understanding of how water moves through natural systems, the ways in which human activity changes hydrologic process, and the kinds of modelling used in planning exercises.

Two hours of lectures and one hour of laboratory time per week.
Prerequisite: One of: ESSA01, ESSA02 (GEA005), (IDB001), (GEOG010), ESSB01 (GEOG020)

T. Foote

EESD507 Introduction to Soil Science
Telephone ID: 36320053
Introduction to the processes of pedogenesis and the development of diverse soil profiles, their field relationships and their response to changing environmental conditions. The course will examine the evolution of the basic processes of soil formation and the fundamental soil properties of importance in soil management, and will provide an introduction to techniques of soil examination in the field, soil analysis in the laboratory and the basic principles of soil classification. Two hours of lecture, 1 hour laboratory each week.

Limited enrollment. To register: (GEOG107), (GEOG109)
Prerequisite: Any A-level course in environmental science or IDS020Y
Session: Winter Day
R. Bryan

EESD509 Field Camp I
Telephone ID: 36320053
Miny environmental problems can only be assessed by collecting geological and other data in the field. This course is designed to familiarize the student with field work in the Earth Sciences. The camp will be held in alternate years in Costa Rica (May) or the Rocky Mountains (September) concurrently with Field Camp II.

Prerequisite: EESS017P and EESS018P (GLG025S), and permission of instructor

Session: Winter Day
Offered to 1995/96
N. Edysh and K. W. F. Howard

EES018P Introductory Mineralogy
Telephone ID#: 36320733
Crystallography, physical properties, origin and occurrence of minerals; and the descriptive mineralogy of approximately eighty common and useful minerals.

Prerequisite: ESSA01, CHMA102Y

Session: Winter Day
G. Gorman

EES018S Optical Mineralogy
Telephone ID #: 36320853
Optical mineralogy and identification of the principal rock-forming minerals in thin section by the use of the polarizing microscope; introduction to petrography.

Prerequisite: EESS017P

Session: Winter Day
G. Gorman

EES019 Environmental Economics and Law
Telephone ID: 36330133
This course deals with the application of economic analysis to problems of environmental change and natural resource use. It examines market processes in situations where externalities in production and consumption are present and the applications of benefit-cost analysis to environmental problems. The course also provides a brief introduction to issues in environmental law and to the statutory and regulatory framework for environmental management in Ontario.

Prerequisite: Permission of Instructor Session: Winter Day

EES020 Remote Sensing & Geographic Information Systems
Telephone ID #: 36390353
A Geographic Information System or "GIS" is a computer-based system including hardware and software for the input, storage, retrieval, manipulation and analysis of remote sensing information and other data. In the environmental geo-sciences this type of information might include the concentration of contaminants, the number of species of fish, and the water temperature at several sample points within a given lake. A GIS in essence allows such "georeferenced" data to be visualized as a series of digitally-encoded map layers which can be overlain, cross-referenced, and queried to reveal relationships and trends within the data. The purpose of this course is to illustrate the basic principles of GIS, to provide hands-on experience with GIS software/hardware and to demonstrate some specific applications of the technology in the environmental sciences using satellite imagery and air photographs. The first half of the course will introduce the fundamentals of GIS and remote sensing, topics will include spatial data types, data capture, data input and output formats, georeferencing and coordinate systems, topology, spatial analysis techniques, data output and map production. The latter half of the course will explore the applications of GIS technology as a tool in the management of environmental problems. Several case studies and databases will be examined which demonstrate GIS applications in both regional (e.g. waste management in the Metro Toronto region, acid mine drainage in Northern Ontario) and local (e.g. distribution of toxins in the Great Lakes Basin, regional hazardous management and flood risk assessment in Ontario) and global environmental concerns (e.g. deforestation in equatorial regions, global climate warming, world population growth).

Students will gain extensive hands-on experience using a number of GIS software packages (GRASS, IDRISI, SEQUEL, Analytical System, ArcView and hardware devices (workstations, digitizers, plotters) in the GIS teaching lab.

Prerequisite: Five full-course equivalents in EES courses.

Session: Winter Day
J. Hobert

EES045 Biogeography and Diversity
Telephone ID #: 36330453
Animals and plants exhibit distribution patterns in both space and time. Study of these patterns together with the various factors (many of them environmental) that cause them constitute the science of biogeography. Biogeography is truly an interdisciplinary subject, an integral part of the study of evolution, and is thought by many to lie at the very heart of biology. This course will cover the basic principles and practices associated with the patterns of life on earth. Coverage will begin with consideration of the physical limitations of life, diversity, the major biomes (marine and terrestrial) and the concepts of abundance and equilibrium. Subsequent topics will include the basics of phylogenetic and ecological systems, evolutionary drift and plate tectonics, the effects of scale on process and pattern, the concepts of centres of dispersal and endemism, comparison of the biotas of continents and islands, and the geography of genes and chromosomes. The fundamental influence of climate will be studied through consideration of global temperature change, with emphasis on the role of ice and events during the Quaternary - a period of especially rapid change. Important biological processes to be studied will include adaptation, speciation, colonization and extinction, competition and predation. The course will conclude with consideration of the unique role of mankind in shaping modern biogeography and will cover topics such as megafaunal extinctions, domestication and agriculture, fragmentation and conservation.

Two 1 hour lectures; one 3 hour laboratory per week
Prerequisite: EESS019 or BIOL004Y

Session: Winter Day

EESCO05 Coastal Geomorphology
Telephone ID #: 36300453
Can a body of water adhering to the nearest coastline in the world, borders on three oceans and is the world's largest inland lake system. Human use of this coastal zone is affected by the activities of the population; our understanding of the physical processes and ecosystems of the immediate environment. The course is designed to introduce students to the basic coastal geomorphology and dynamic transport processes which control the coastal sedimentary and ecological behaviour (e.g. erosion, accretion etc.) of coastal systems and the current problems arising from the use and abuse of this dynamic environment by humans (e.g. shoreline recession, pollution transport, etc.).

While theory will be treated in the course, much practical work will be focused on the GSL and the Scarborough/Humber River areas.

Session: Winter Day
J. Hobert
through field excursions, essays and projects.

PhD: 15:30-16:45
Session: Winter Day
B. Greenwell

EESC3055S Subsurface Exploration Techniques: Drilling
Telephone ID #: 36531053
This course is designed to introduce students to drilling techniques necessary for geophysical and geological analysis. The course will include lectures on different types of drilling equipment and techniques, and students will have the opportunity to participate in field exercises.

Prerequisites: EESC3212 or permission of instructor.
Session: Winter Day
R. Tanaka

EESC3061S Paleoenvironmental Determination
Telephone ID #: 36330943
The objectives of this course are to introduce students to the diverse and increasingly important methods used in paleoenvironmental determinations. The course will cover topics such as paleoclimatology, paleoecology, and paleohydrology.

Prerequisites: EESC3045 or permission of instructor.

EESC3073F Exploration Techniques in Hydrogeology
Telephone ID #: 36330733
This course is designed to introduce students to the principles of hydrogeology and the mechanics of groundwater exploration. The course will cover topics such as groundwater sampling, field methods, and data analysis.

Prerequisites: EESC3045 and permission of instructor.
Session: Winter Evenings

EESC3080S Soil Management in Temperate Regions
Telephone ID #: 36531053
The utilization of soil resources in Canada and western Europe will be described with particular emphasis on environmental impact and soil degradation. The course will focus on the fundamentals of soil degradation and soil conservation techniques and strategies with particular attention to critical issues in Canada such as nutrient cycling and the management of soil fertility, soil erosion and conservation, soil contamination and acidification, problems of drainage and secondary salinization, and the management of Arctic and Alpine soils.

The course will involve regular laboratory projects in the Soil Erosion Research Laboratory.

Two-hour lecture and two-hour of laboratory each week.

Prerequisites: EESC3080S, GGR3951
Session: Winter Day
R. Bryan

EESC3081F Tropical Soil Management and International Development
Telephone ID #: 36331153
This course will examine the salient characteristics of tropical soils and the processes which lead to soil degradation. Soil management practices will be analyzed and potential conservation techniques and strategies will be examined in the context of tropical soil properties and land use patterns. Particular attention will be paid to nutrient cycling and sustainable cultivation, to vegetative and mechanical approaches to soil conservation, to soils and agricultural and to soil and water management in arid and semi-arid regions.

One-hour lecture and one-half hour laboratory every second week. Laboratory projects in the Soil Erosion Laboratory will be involved.

Prerequisites: EESC3080S

Session: Winter Day
R. Bryan

EESC3090F Glacial and Periglacial Geology
Telephone ID #: 36331223
This course will provide an introduction to the principles of glacial and periglacial processes and environments. The course will cover topics such as glacial landforms, glacial sediments, and glacial processes.

Prerequisites: EESC3045 and permission of instructor.

Session: Winter Day
R. Bryan

EESC3095F Hydrogeology
Telephone ID #: 36331223
This course will provide an introduction to the principles of hydrogeology and the mechanics of groundwater exploration and assessment. The course will cover topics such as groundwater sampling, field methods, and data analysis.

Prerequisites: EESC3045 and permission of instructor.

Session: Winter Day
R. Tanaka

Environmental Science 95

EESC315F Environmental Impact Assessment
Telephone ID #: 36531323
This course will provide an introduction to the principles of environmental impact assessment. The course will cover topics such as environmental assessment, environmental regulations, and environmental impact assessment techniques.

Prerequisites: EESC3045 or permission of instructor.
Session: Winter Day
R. Bryan

EESC320S Contaminant Hydrogeology
Telephone ID #: 36340233
This course will provide an introduction to the principles of contaminant hydrogeology. The course will cover topics such as contaminant fate and transport, contaminant migration, and contaminant remediation.

Prerequisites: EESC3045 and permission of instructor.
Session: Winter Day
R. Tanaka

B. Greenwell

EESC3055S Quaternary Environments
Telephone ID #: 36330365
The Quaternary is a period of unprecedented and well-documented change characterized most visibly by fluctuating climate and sea level. This course is designed to familiarize students with the worldwide effects of environmental change during the last three million years, leading to the development of the modern global flora and fauna.

Topics will include: the Tertiary legacy, Quaternary driving forces, e.g. glaciation, sea level changes and their effects on climate, topography and soils; nature of the evidence; relevance of Quaternary studies to present and future states of the environment; responses of plants and animals to environmental change - extinction, evulsion, migration, microhabitat exploitation; terrestrial environments - effects of habitat and soil immaturity on flora and fauna; aquatic environments - distribution, temperature, regime; examples of Quaternary vegetation changes in the main floral realms of the world; examples of Quaternary animal changes in the main faunal regions of the world with special emphasis on Neotropical/Palaeotropical differences.

Development of the Arctic flora and fauna; glacial refugia; Holocene changes related to human activity.

Prerequisites: EESC3045 or permission of instructor.

Session: Winter Day
N. Williams
EEDS05 Theoretical Geomorphology
Telephone ID: 3634035
History and philosophy underlying modern theories of landform evolution. Emphasis will be placed on readings and seminar work dealing with the modeling of geomorphic systems and the constraints imposed by space and time.
Limited enrolment: 20
Prerequisites: EEDS05 (GGRB19) and one of EEDS01H (GGRB28), GRC27 or GRC28. A background in science will be useful.
Session: Winter Day
B. Greenwood

EEDS06 Sedimentary Model
Telephone ID: 3634053
The basic principles of sediment transport mechanisms will provide the focus for the interpretation of the physical properties of clastic sedimentary bodies. Detailed examination of a wide range of modern sedimentary systems will be undertaken to establish analogues for palaeo-environmental interpretation. Lectures will be complemented by seminars and occasional field and laboratory work.
Limited enrolment: 20
Prerequisites: EEDS05 (GGRB19) and one of EEDS01H (GGRB28), GRC27, GRC28, a background in science will be useful.
Session: Winter Day
B. Greenwood

EEDS07 Hillslope Geomorphology
Telephone ID: 3634053
The course will involve a review of the development of major concepts of hillslope evolution, detailed theoretical and practical study and measurement of hillslope processes, and applications of the principles of hillslope geomorphology to problems of landslip management, such as soil erosion and lake bluff collapse.
Limited enrolment: 15
Prerequisites: EEDS05 (GGRB19) and one of EEDS01H (GRC28) or GRC28
Session: Winter Day
R. Bryan

EEDS08 Climate Change
Telephone ID: 3634053
The course will focus on the myriad nature of climatic change. Climatic change will be considered from instrumental and proxy data points of view and from various theories that have been involved to explain it. The last part of the course will examine several numerical models (e.g., radiative, energy balance models) that have been applied to simulate climate change.
Prerequisites: EEDS05 (GGRB19) and EEDS06 (GGRB20)
Session: Winter Day
W. Goepel

EEDS09 Field Camp II
Telephone ID: 3634073
The third field camp is designed to familiarize the student with several geological settings and modern environments. The camp is held in alternate years in Costa Rica (May) or the Rocky Mountains (September).
Prerequisites: Field Camp I.
Session: Winter Day
N. Eyles, J. W. F. Howard
Offered in 1995/96

EEDS06F Environmental Geology of Metropolitan Toronto
Telephone ID: 3634083
The long term health of natural environments in the vicinity of Metropolitan Toronto is threatened by rapid urbanization. Visits will be made to problem areas in the greater Toronto area where remedial work and other environmental investigations are ongoing. The applications of environmental geology to problem management will be emphasized. The course will be particularly useful for those students wishing to pursue a career with government regulatory agencies, private sector environmental consulting companies or in education.
Sessions offered in alternate years starting 1994/95.
Session: Winter Day
Prerequisites: EEDS12F, EEDSF7F
N. Eyles

EEDS09F Research Project
This course is designed to give students experience in the EEDS implementation, and reporting of a substantial research project involving laboratory and fieldwork. Existing faculty research areas allow a broad range of possible topics. The project may be designed as a half or full course and should be undertaken after the end of the 3rd year. Subject to faculty availability. Faculty permission and supervision is required and the course is only open to those students who have either completed or are undertaking specialist courses in the area of intended study. Students having a B+ or higher standing may be eligible for summer financial support for research costs. Students are advised that they must obtain consent from the supervising instructor before registering for this course.
Offered in 1995/96
Session: Winter Day
Staff

EEDS11H Hydrology: Physical Processes and Modelling
Telephone ID: 3634115
The motion of water in terrestrial systems is explored at the hillslope scale, with particular reference to the relationships between surface and subsurface hydraulic processes, and also to the way in which streamflow is generated. The physical processes of infiltration and soil water motion are described in detail. The applications of physically based modelling to snowmelt processes is treated, and the difficulties of using physically based models in general for the prediction of natural system behaviour are explored. Two hours of lectures and one hour of laboratory time per week.
Prerequisites: Either EEDS04F (GGRB38) or EGRB00
Permissions: EEDS04F (GGRB38) or EGRB00
T. Price

EEDS12F Environmental Geophysics and Geophysical Mapping Methods
Telephone ID: 3634123
Applied geophysical techniques are increasingly used to investigate the impact of environmental conditions on urban development and vice-versa. This course will focus on the current methodology and instrumentation used for environmental investigations. The methods of exploring the subsurface have found specialized, but important, uses in engineering and environmental studies. This course involves field visits and various geophysical techniques in geological, civil and environmental engineering.
Sessions: Winter Day 1995
Prerequisites: EEDS05F
Session: Winter Day
A. P. Bywater

Courses Not Offered in 1994/95
EEDS05, EEDS01H, EEDS11S, EEDS12F, EEDS07F.

Fine Art (B.A.)
Discipline Representative: Fine Art History: L. Carney (TBA)
Fine Art Studio: D. Holman (285-7177)
Fine Art is the field which deals with objects of all sorts that have cultural and aesthetic importance. Because the range of these works is virtually without boundaries, widely divergent approaches come into play in studying them. Increasingly, however, these approaches emphasize the ways that works of art reflect major social and ideological conditions in their cultures.
At Scarborough College, Fine Art includes both Art History and Studio, two separate but interrelated fields.

Fine Art History
Because art is perceived through the eyes and other senses as well as through the intellect, art history courses commonly present their subjects via slides, films, videos, and direct viewing of art works in galleries and museums and in the cities. Although the course structure reflects a traditional division into time periods, instructors often use new methodologies to explain the works 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 courses, these courses offer basic information about art and architecture in all phases of Western culture, and a chance to improve one's perceptual awareness. Prerequisite for all C-level courses in Art History: one full-course equivalent at the A-level or permission of the instructor.
Students who enroll in the Major and Sociology program may take the half-courses FAR410, FART41, FAR412 and FAR413 as early as possible in their university careers, and should consult the Supervisor of Studies when arranging their course sequences.
The Department of Fine Art Undergraduate Handbook summarizes course offerings and resources for Fine Art students on all three University campuses.
NOTE: A new Major Programme in this area is in the course of development. It is being designed to accommodate a range of new courses and to appeal to students with a number of different interests. Details of the new programme will appear in the 1995/96 Course Guide.

Specialist Programme in Fine Art History
Supervisor: R. Siebelshoff (287-719)

Students must complete twelve full-course equivalents as follows:

1. FARA11F; FARA11S; FARA12F; FARA13S
2. Four B-level course equivalents in art history, with at least one half-course each in the areas of classical, medieval, renaissance, baroque and modern art.

Students may also meet one-fourth of this requirement by substituting one full-course equivalent from the following list:

FARA10Y Foundation Studies in Studio
ANT138Y Prehistory of North America North of Mexico
ANTH4FR Myth and Symbol
FARM11Y Sculpture Concept
GGR813Y Modern Urban Landscape
HUM107Y Introduction to Cinema
PH1105H Philosophy and Art
PSY156FS Sensation and Perception
PSY156FS Perception and Cognition
ANTC5EFS Death and Burial
ANTD33Y Analysis of Cultural Material
*Check calendar entries for prerequisites

Four full-course equivalents in art history at C level (or at the 300/400 level on the St. George campus).

Two full-course equivalents with the approval of the Programme Supervisor.

Major Programme in Fine Art History
Supervisor: R. Siebelshoff (287-719)

Students must complete seven full-course equivalents as follows:

1. FARA11F; FARA11S; FARA12F; FARA13S

Two full-course equivalents at the B level will substitute for one half-course equivalent in each of the following areas:

Classical
Medieval
Renaissance
Baroque
Modern (1750 to the present)

Session: Winter Day
R. Siebelshoff
Not offered 1995/96

FARA11F Ancient Art and Architecture (ca. 900 B.C.-300 A.D.)
Telephone ID #: 06211133
The artistic achievements of Greece and Rome. This course is basic to the study of all subsequent periods of Western Art. It examines Greek architectural design with its concern for ideal proportions and balance, best exemplified in the well-known columnar temple. Next it deals with Roman technical inventions, which among other changes made it possible to create large interior spaces and to introduce new types of urban buildings. The course will also show how Classical painting and sculpture affected later culture, through its depiction of myth and legend, and through techniques intended to create for the first time an illusion of the real world.
Exclusions: FAB1203, FAB1204
Session: Winter Day
M.C. Shaw
Not offered: 1995/96

FARA11S Medieval Art
Telephone ID #: 06211133
A survey of European architecture, sculpture, painting, illumination, and minor arts, from the late Roman Empire to the end of the Middle Ages.

The course examines the origins of European artistic traditions in the early Christian, Mediterranean world, how these traditions were influenced by classical, Byzantine, Muslim and pagan forms; how they developed an entirely new form of artistic expression in the High Middle Ages; and how they led on to the Renaissance. Texts will include R. Kitzinger, Early Medieval Art II; Kraus, A History of Western Art; R. Byam Shaw, The Gothic
Exclusion: FAB1203
Session: Winter Day
M. Govers
Not offered 1995/96

FARA12F Renaissance and Baroque Art
Telephone ID #: 06211233
A study of architecture, painting and sculpture from 1400 to 1750.

The course will present important monuments, primarily from Italy and the Netherlands, including works by such artists as Van Eyck, Leonardo da Vinci, Michelangelo, Rembrandt, and Rembrandt.
Exclusions: FAB1204, FAB1205
Session: Winter Day
R. Siebelshoff
Not offered: 1995/96

FARA13S Art after 1750
Telephone ID #: 06211533
A survey of European and North American painting, sculpture and architecture from the period of the American and French Revolutions until the present.

Session: Winter Day
R. Siebelshoff
Not offered: 1995/96

FARA160S The Arts in Northern Europe ca. 1400-1500
Telephone ID #: 06211673
The Northern Renaissance, with emphasis on the Netherlands.

The course concentrates on the development of painting from Van Eyck's brilliantly coloured works to the imaginative subjects of Hans Memling. The works selected will also illuminate some of the problems faced by students of art, such as the identification of artists on the basis of documents and the analysis of style and subject matter. The text is Ch. Curlier, Northern Painting, New York, 1968 (soft cover edition).
Exclusions: FAB1307Y
Session: Winter Day
R. Siebelshoff
Not offered 1995/96

FARA169Y Twentieth-Century Art
Telephone ID #: 06211886
A survey of twentieth-century painters and sculptors, primarily European, with an emphasis on their interactions with modern technology and society.

The course introduces artists like Picasso and Matisse, whose work is now history, as well as contemporary painters and sculptors. The focus throughout will be on the ways that photography, the movies, television and other technologies have changed the nature of art.
Session: Winter Evening
L. Carney
Not offered 1995/96

FARB155Y American Painting 1860-1980
Telephone ID #: 06215550
"Modern" American painting and the ideas and conditions affecting it.

The course presents artists who brought modern European ideas into U.S. art, from the American Impressionists to such famous painters as Georgia O'Keeffe and Jackson Pollock. It considers the response of American art to 20th century life, particularly in New York City with its extremes of poverty and wealth, its huge immigrant population, and its love of large-scale "progress." It also deals with the reaction against the art of the New York School after their international success in mid-century.
Exclusions: FARB854, FABH112
Session: Winter Day
L. Carney
Not offered 1995/96

FARB166Y Women and Visual Art
Telephone ID #: 06216663
The influence of feminism on making and understanding art in the last 150 years.

Using informal lectures, the course discusses women artists and their relationship to "mainstream" art. It also studies the impact of feminist theories on art movements and the changes they have engendered.
Exclusions: FAB915, FAB715S; FAB915FS or permission of instructor
Session: Winter Day
L. Carney
Not offered 1995/96

FARC1105S Wall Painting in Ancient Egypt and the Bronze Age Aegean (2000-1200 B.C.)
Telephone ID #: 06210683
A study of paintings in temples and frescoes in two ancient cultures of human civilization.

In ancient Egypt the tombs of rulers and nobility had most of the culture's pictorial art, created to perpetuate life after death and to glorify the dead. It has an inimitable beauty of pattern. In Greece and the Aegean islands, in contrast, paintings decorate palaces and houses. They often glorify nature and are rendered in a lively and impressionistic style. Fascinating in themselves, the paintings of these two contemporary but different societies provide material for illuminating comparators and for detecting possible
ARTICULATION. Exclusion: FARB0292.
Prerequisite: One full-course equivalent at the B-level or permission of instructor. Session: Winter Day
M. G. Shaw
Not offered 1995/96
FARB065S Gothic Architecture
Telephone ID #: 06201553
The development of Gothic architecture from the beginning of the twelfth century to the middle of the thirteenth century. Emphasis will be placed 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 programmes of the said cathedrals will be included. One two-hour lecture per week. Course texts include: O. von Simson, The Gothic Cathedral, Princeton 1962. Exclusion: FARB0288.
Prerequisite: One full-course equivalent at the B-level or permission of instructor. Session: Winter Day
M. Gervers
FARB117F Frame Halle, Rembrandt, and Vermeer
Telephone ID #: 06213133
The principal masters of seventeenth-century Holland. This study makes extensive reference to the cities of Haarlem, Amsterdam, and Delft as the centers in which these artists worked. Their paintings will be analyzed from the point of view of subject matter, technique and subject influence. The text is Rosenberg, Silver, Ter Kuile, Dutch Art and Architecture 1600-1800 (Pelican History of Art, paperback edition). Exclusion: FARB1508.
Prerequisite: One full-course equivalent at the B-level in Fine Art History, preferably FARB207.
Session: Winter Evening
R. Stucklaff
Not offered 1995/96
FARB115S Nineteenth Century Realism
Telephone ID #: 06213153
A study of those artists, influenced by photography, whose aim was to represent the world in an objective and impartial way. Realism had major representatives in England and Germany. The Lucanian flowering occurred in France between 1840 and 1880. Works of art from all these countries will be studied. Texts: Gabriel Weinberg, The Realism Tradition, Cleveland, 1980; and Linda Nochlin, Realism, Penguin, 1971.
Prerequisite: One full-course equivalent at the B-level in Fine Art History or permission of the instructor. Session: Winter Day
R. Stucklaff
Not offered 1995/96
FARB207F Supervised Reading in Classical Art
Exclusion: FARB408, 481
FARB407S Supervised Reading in Medieval Art
Exclusion: FARB482, 483
FARB407F Supervised Reading in Renaissance and Baroque Art
Exclusion: FARB484, 485, 486, 487
FARB407S Supervised Reading in Modern Art
Exclusion: FARB488, 489
A course offering the opportunity for advanced investigation of an area of interest; for students who are nearing completion of art history programmes and who have already acquired research skills sufficient for independent work. Students must locate a willing supervisor, and topics must be identified and approved, by the end of the previous term. A reading knowledge of a second language is recommended.
Prerequisite: One C-level full-course equivalent in art history.
Students are advised that they must obtain consent from the supervising instructor before registering for these courses.
Session: Winter Day
Members of Faculty
Courses Not Offered in 1994/95
FARB404F Archaic Greek Sculpture (460-480 B.C.)
Exclusion: FARB404
Prerequisite: FARB404 is highly recommended
FARB405S Classical Greek Sculpture (480-300 B.C.)
Exclusion: FARB404
FARB410F Caravaggio and Romanesque Art and Architecture
Exclusion: FARB121, 322
Prerequisite: FARA115; highly recommended
FARB415S Architecture in Italy
Exclusion: FARB1273
FARB427F Baroque Painting in the Netherlands 1600-1700
Impressionism
Exclusion: FARA178
FARB464S Post Impressionism
Exclusion: FARB282
The Art in Canada. 1870-1960
Exclusion: FARB186
FARB486F Recent Canadian Art
FARB486F The Art of Southeast Asia
Exclusion: FARB186
FARB486F Art Around 1900
Prerequisite: One full-course equivalent at the B-level or permission of instructor
Leonardo da Vinci
FARB486F
Prerequisite: One full-course at the B-level in art history. Seminar in Twentieth Century
Art
FARB486F
FARB486F
Fine Art Studio
The Specialist Programme is designed for students who are considering art as a profession and/or who may want to continue to the graduate level. It also prepares students for work in the areas of art gallery administration, curating, arts councils, and art college teaching.
Specialist Programme in Fine Art Studio
Supervisors: Don Holman (887-1177) Students must complete fourteen and one half full-course equivalents: ten and one half full-course equivalents in studio; two full-course equivalents in art history which must include FARA131, and two additional full-course equivalents in cognate disciplines. The list of recommended courses is available from the Programme Supervisor. The courses in studio must include:
1. FARA097F/FARA108F
2. FARD075F/FARD077F/FARD075T
3. Four full-course equivalents from the remaining B-level, and/or C-level chosen in consultation with the supervisor.
4. Two D-level full-course equivalents.
The Major Programme in Studio will give the student a broad and exposure to both the various processes of art-making and to recognize developments in art criticism. The programme provides some preparation for teaching at the high school or elementary level.
Major Programme in Fine Art Studio
Supervisor: Don Holman (887-1177) Students must complete seven full-course equivalents as follows:
1. FARA097F/FARA097T
2. FARA131
3. FARA070S
4. FARA072S
5. FARA074S
6. FARA075T
7. Two and one half additional full-course equivalents, one of which must be at the D-level.
* Students should check these courses for prerequisites.
A recommended approach to our programmes
MAJOR PROGRAMME
First Year:
FARA097F Foundation Studies in Studio
FARA097S But Why is it Art?
FARA115S Art After 1750
Second Year:
FARB76F Drawing I
FARB76F Contemporary Issues in Printmaking
FARB75F Painting I
FARB882T Introduction to Lithography
FARB882T Drawing II
Third Year:
FARB207F/FARB288 or FARB117F
FARB245S/FARB245S or FARB117F
FARB245S/FARB245S or FARB117F
SPECIALIST PROGRAMME
First Year:
FARA097F Foundation Studies in Studio
FARA115S But Why is it Art?
FARA115S Art After 1750
Second Year:
FARB76F Drawing I
FARB76F Contemporary Issues in Printmaking
FARB75F Painting I
FARB882T Introduction to Lithography
FARB882T Intermediate Lithography
FARB882T Drawing II
Third Year:
FARB207F/FARB288 or FARB117F
FARB245S/FARB245S or FARB117F
FARB245S/FARB245S or FARB117F
Fourth Year:
Two full-course equivalents at the B-level or FARB409S/FARB208S or FARB208S
*These courses should be checked for availability due to cycling.
The Fine Art Studio curriculum is built around the idea that art is a means of expressing and understanding the human condition. It does not offer courses in commercial or advertising art.

Our courses offer the student a practical "hands-on" experience in art-making. The studio experience is intended to expand the student's perception not only of what art is, but of why and how it is made. Through the actual process of art-making, the student will develop the ability to understand and experience the challenges of contemporary art. Critical skills will expand along with practical skills.

Our A-level studio course is Foundation Studies in Studio and it covers, through practice and discussion, basic media and concepts. The comprehensive FARA31FS but Why is it Art? must be taken before advancing to our B-level courses which will introduce the student to other media, processes, and a deeper investigation of the ideas behind art. C-level and D-level courses allow supervised and independent work in any area the student wishes to investigate.

The Major and Specialist Programmes require an Art History course. FARA13. In addition, we strongly urge our students to take other Art History courses dealing with modern and contemporary art.

Students will be expected to purchase the materials necessary for each course. An estimate of the costs is available from the Programme Supervisor.

FARA09 Foundation Studies in Studio
Telephone ID #: 06220061
An introduction to the various processes of art-making: drawing, painting, sculpture, printmaking, installation work, performance, and media and concepts. This course is intended to prepare the student for further study in Studio. A basic foundation of visual understanding will be built through the personal exploration of a number of processes, concepts, and media.

Students will discover, through assigned work and discussions, the many ways contemporary art is made. They will be required to explore a number of these processes themselves.

Limited enrolment: 20
Exclusion: FAS03
Compreh: FARA9
Prerequisite: None
FARA08 Introduction to studio art
Telephone ID #: 06220233
An introduction to the basic ideas behind recent art, how they developed, and why they change. "I don't know anything about art but I know what I like." Why do we feel uncomfortable when confronted with contemporary art? What are we supposed to be thinking and why? This course aims to develop a broad basic knowledge of the critical positions that led to major changes in recent art.

Session: Winter Day T.R.A.
Offered 1995/96 and 1996/97
FARA06 Women and Visual Art
Telephone ID #: 06220665
The influences of feminism on making and understanding art in the last 150 years. Using informal lectures, the course discusses women artists and their relationship to "mainstream" art. It also studies the impact of feminist theories on art movements and the changes they have engendered.

Prerequisite: WSTA01Y, FARA13FS, FARA10FS or permission of instructor.
Session: Winter Day L. Curwen
Not offered in 1995/96
Offered in 1996/97
FARG07 Drawing I
Telephone ID #: 06227033
An introduction to the various approaches to drawing, including working from the figure and working with ideas.

Using the model and assignments, this course develops the student's ability to investigate the potentials inherent in drawing. The student must complete a number of finished drawings, working both from the model and from assigned problems. Through drawings, the student will develop a knowledge of the basic elements of drawing, and a completed sketchbook will make up the final portfolio for grading. All assigned work will be discussed in class by the instructor and other class members.

Limited enrolment: 20
Exclusion: FAS218
Compreh: FARA07
Prerequisite: FARA06
Session: Winter Day D. Holman
Offered 1995/96 and 1996/97
FARB72 Contemporary Issues in Printmaking
Telephone ID #: 06227233
An exploration of traditional and more experimental processes of printmaking.

Students will investigate the broad possibilities inherent in printmaking through assigned work which will be discussed in class and individually with the instructor. They will also be required to give an oral presentation on a contemporary artist. Limited enrolment: 15
Prerequisite: FARA00
Session: Winter Evening
D. Holman
Offered 1994/95 and 1995/96
FARB67 Photographic Issues in the Visual Arts
Telephone ID #: 06227363
An introduction to non-traditional photography and to the issues arising from the use of photography in the 20th century.

This course explores the impact of still photography on the process but also the conceptualization of art-making. The student is introduced, through lectures and demonstrations, to the various ways contemporary artists use photography in their work. Individual and group critiques will be held to discuss assigned work.

Students will work in the darkroom and with multi-media to produce a number of experimental works. Students should have either a 35 mm camera or a home-made pinhole camera. Limited enrolment: 15
Prerequisite: FARA06 or permission of instructor.
Session: Winter Day A. Brenner
Offered in 1995/96
FARB74 Drawing II
Telephone ID #: 06227453
A continuation of FARG70 with an increased emphasis on the student's ability to expand her/his personal understanding of the meaning of drawing.

Through the use of the model and assigned projects, the student will be required to explore a number of visual possibilities dealing with both objects and ideas.

This course requires the student to work from the figure as well as work from concepts assigned to the class. These completed drawings will be discussed in class and will, with a complete sketchbook, make up the final portfolio for grading. Limited enrolment: 20
Exclusion: FAS218
Prerequisite: FARB70
Session: Winter Day D. Holman
Offered 1995/96 and 1996/97
FARB79 Painting
Telephone ID #: 06227553
An investigation of the possibilities of painting with an emphasis on the rich potential for expression of both personal and cultural imagery.

This course is designed to expose the student to current concepts in painting, primarily the shift from Modernism to Post-modernism and its consequences. These changes will be investigated through an exploration of both media and imagery.

Work in the first term will be based on assignments. Work in the second term will consist of images and concepts developed by the individual student. Discussions of work will be held regularly both as an individual and group level.

Students will be required to give an oral presentation on a contemporary artist and write two papers on contemporary art. Limited enrolment: 20
Exclusion: FAS218
Prerequisite: FARA00
Session: Winter Day T.R.A.
Offered 1995/96 and 1996/97
FARB80 Introduction to Lithography
Telephone ID #: 06228233
An introduction to black and white stone lithography including a detailed investigation of materials and techniques.

The course will include demonstrations and lectures covering the technical aspects of the medium. Students will be required to purchase their own materials and explore the medium by drawing, processing and printing at their own pace. Discussions of work will be held regularly both as an individual and group level.

Limited enrolment: 10
Prerequisite: FARA06 or permission of instructor.
Session: Winter Day D. Holman
Offered 1995/96 and 1996/97
FARB82 Intermediate Lithography
Telephone ID #: 06228333
A continuation of FARB82, with emphasis on multi-colour intaglio printing.

The course explores the technical aspects of working with coloured inks. Students will be expected to work out visual ideas by drawing, processing and printing a number of their own lithographs.
Individual and group critiques will be held to discuss assigned work. Limited enrolment: 10
Prerequisite: FARB2 and permission of instructor
Session: Winter Day
D. Holman
Offered 1995/96 and 1996/97

FARB2/S FARB2/F FARB2/S FARB2/S FARB2/S
Supervised Studies in Studio
An opportunity for the student to create a number of personal statements working in an area of their own choice. These courses may be taken in any area including printmaking, drawing, painting, sculpture, photography or mixed media if the student, through the portfolio and proposal, can show the ability to proceed to the intermediate level. Students will provide their chosen instructor with a written proposal within the first week of classes. This will state the intended area of investigation, the amount of work necessary to fulfill it, and a justification of the students' position. They will also meet at appointed times to discuss work-in-progress. Content, method and evaluation will be planned in co-operation with the instructor.
Prerequisites: at least one half course in painting at the C-level
Exclusions: FAS430, 431, 434, 435, 436, 437, 438, 439
Limited enrolment: 3
D. Holman
Offered 1995/96 and 1996/97

FARD27Y Advanced Studio: Individual Study in Printmaking
Telephone ID #: 06242263
A further opportunity for individual exploration in printmaking. This course is designed for mature students who, through their portfolio and proposal, have shown their ability to work without intensive guidance. Students will provide their chosen instructor with a written proposal within the first week of classes. This will state the intended area of investigation, the amount of work necessary to fulfill it, and a justification of the students' position. They will also meet at appointed times to discuss work-in-progress. Content, method and evaluation will be planned in co-operation with the instructor.
Prerequisite: at least one half course in painting at the C-level
Exclusions: FAS430, 431, 434, 435, 436, 437, 438, 439
Limited enrolment: 3
D. Holman
Offered 1995/96 and 1996/97

French
Discipline Representative: L. B. Mignault
Supervisor of Studies: C. Evans
Supervisor of Study Elsewhere: S. Miller
(287-7155)
Undergraduate studies of French normally begin with FRLA10 Language Practice I, which serves to consolidate previous language experience. This course is also the prerequisite for all advanced language, literature, and linguistic courses in our program of French studies.
The courses offered are designed primarily for students with OAC French (for Grade 13 French) who wish to continue their study of the language and culture of France and the Francophone world. These students who have significant 'immersion' or 'enriched' high school experience should consult the faculty member responsible for FRLA10 or FIRECH-05 concerning the appropriate language practice course for their purposes. Students without OAC French or equivalent are urged to obtain credit for FRLA10 on a "study elsewhere" basis, for example, by attending a summer immersion program. Further information is available from our Supervisor of Study Elsewhere, Professor S. Miller.

Once FRLA10 (or its equivalent) is completed, students intending to continue their French studies may choose courses from a variety of areas: These are described below. Please consult the Program Supervisor and members of the French staff for more detailed advice about course selection and for information about our Special and Major Programmes.
Areas of study in French include:
1) Practical language studies
   a) General language studies
      i) For general purposes: A10, B10, C10, C20
      (These courses must be taken in their proper sequence. Normally, a student may not take an A-level French course at the same time as or after a B-level French course.)
   ii) For special purposes:
       translation: B05, C05 - business: B18, C18
2) Literature
   Courses in literature of France, French Canada and the Francophone world, cover a range of periods and genres. Some literary study is a requirement in each of the Programmes offered by the Discipline.
3) Linguistics
   Courses in linguistics may be description as in B23 and C23, historical as in C42 (France), and C43 (Canada) or both practical and descriptive as in B48.
   Students interested in more comprehensive studies in linguistics are invited to consult Linguistics (L10A01, B05 and D25 see of particular relevance to French studies.
4) Civilization
   Courses in the civilization and culture of France, French Canada, France, and other Francophone countries cover all periods and provide opportunities to intensify understanding of the settings within which the literature and the language of these countries have developed. Relevant courses include D22, B23, B27, and D28. Only one full-course equivalent in the area of civilization may be counted as part of the requirements for each of the Special and Major Programmes in French.
The College's "Study Elsewhere Program" offers ideal opportunities for French students to fulfill some of their program requirements while studying French elsewhere. For instance, the University of Toronto sponsors a program at Laval (Quebec), if interested, please consult the Supervisor of Study Elsewhere. For further information about the Study Elsewhere Program and Letters of Permission refer to Study at other Universities in this calendar.

Other courses and organizations likely to interest students of French may be found under Language Studies.

The French Discipline offers six different programs: a Specialist Programme in French Language and Literature, a Major Programme in French Language and Literature; a Major Programme in French Language: a Minor Programme in French; a Joint Specialist Programme in Management and Language; and, in cooperation with the Faculty of Education, a Specialist Programme: Education of Teachers in French.

Specialist Programme in French Language and Literature: A Four-year "Monograph" Programme is designed to prepare future teachers of French at all levels in the school system: primary/secondary, junior/intermediate, and intermediate/secondary. It includes both academic courses in French and other subjects and practicum placements in elementary or secondary schools in years 3 and 4.

The programme is designed and offered jointly by the Division of Humanities,Scarborough College, and the Faculty of Education, University of Toronto, in order to meet the need for teachers of French throughout the school system. It provides a comprehensive education for future teachers of French, one which emphasizes both content and methodology. Students will be admitted to the programme on the basis of their overall performance in first-year, their performance in French course, and an interview. Students who successfully complete this programme of studies and who meet the admission requirements of the Faculty of Education will be admitted to the University of Toronto and the Faculty of Education. Up to 20 students will be selected for this programme each year.

Students in this Specialist Programme must complete a total of 20 courses chosen from the two main categories below:

A. Ten full-course equivalents in French as follows:
1. Three full-course equivalents consisting of: FREN101Y, FREN102Y, and one full-course equivalent from the sequence FREN101, 102 (except where substitution of other French courses is permitted for students with special proficiency in the French language).
2. Two full-course equivalents selected from the following: FREN149Y, FREN149Y, FREN149Y, FREN149Y, FREN149Y.
3. One full-course equivalent selected from the following: either FREN120Y or FREN120Y, FREN120Y, FREN120Y, FREN120Y.
4. Three full-course equivalents in literature which must include: one full-course equivalent in French Canadian literature, one full-course equivalent in French literature, one full-course equivalent in French literature from other parts of the French-speaking world excluding France and Canada. FREN111Y and FREN111Y (FREN111Y must be taken in second or third year).

B. Ten further full-course equivalents:
Students are advised to choose courses to suit the teaching programme and the teaching subjects they are interested in. Information and advice will be available through the Programme Coordinator at Scarborough and through counselling at the Faculty of Education. The following are recommended as general preparation for the ESLITE EGS Programme:
- a half-course in educational psychology
- a half-course in language acquisition
- a half-course to develop computer competence

Practicum requirement
All programme registrants are required, in years 3 and 4, to spend a minimum of one half-day per week engaged in a supervised classroom teaching experience. This experience will allow registrants to put into practice their understanding of French language teaching methods presented in FREN101 and FREN102. Students, in association with the Faculty of Education, will arrange practicum placements in local elementary and secondary schools.

Major Programme in French Language and Literature: A Four-year "Monograph" Programme is designed to prepare future teachers of French at all levels in the school system: primary/secondary, junior/intermediate, and intermediate/secondary. It includes both academic courses in French and other subjects and practicum placements in elementary or secondary schools in years 3 and 4.

Students should complete seven full-course equivalents, including:
1. FREN101Y, FREN102Y, and one full-course equivalent from the sequence FREN101, 102 (except where substitution of other French courses is permitted for students with special proficiency in the French language).
2. Two full-course equivalents from the following: FREN139Y, FREN139Y, FREN139Y, FREN139Y, FREN139Y, FREN139Y, FREN139Y, FREN139Y, FREN139Y, FREN139Y, FREN139Y, FREN139Y, FREN139Y, FREN139Y, FREN139Y, FREN139Y, FREN139Y.
3. Two full-course equivalents in French, one of which must be in the area of French Canadian literature, and one in the area of francophone civilization.
4. One full-course equivalent in the Specialist Programme: Education of Teachers in French.

The following may not count toward a Major Programme in French Language and Literature:
1. Any A-Level course, with the exception of FREN1A0 and FREN1A0.
2. FREN111Y, FREN111Y, FREN111Y, FREN111Y (FREN111Y must be taken in second or third year).

(All of these courses are described in detail below.)
FRE410Y Language Practice I
Telephone ID #: 06611263
Reinforcement and development of the language skills—understanding, reading, writing, and speaking—necessary for higher level courses.

FRE595Y Introduction to Francophone Literature
Telephone ID #: 06615063
A study of representative works from major periods and areas of the literature of the francophone world.

FRE410Y Language Practice I
Telephone ID #: 06611263
Reinforcement and development of the language skills—understanding, reading, writing, and speaking—necessary for higher level courses.

FRE595Y Introduction to Francophone Literature
Telephone ID #: 06615063
A study of representative works from major periods and areas of the literature of the francophone world.

FRE410Y will introduce students to the initial reading of literary texts in French. Students will be encouraged to acquire the basic vocabulary and techniques necessary to analyze literature and to develop their essay-writing skills in French. This course is recommended both for students intending to major or specialize in French as a useful background for more advanced studies and for those students interested in enhancing or retaining their reading, writing, and speaking skills in French.

The class will meet for three hours each week for lectures and discussions conducted in French.

Exclusions: FRED100P
Prerequisite: OAC French or Grade 13 French or (FREA10) or equivalent
Session: C. Evans
Offered 1995/96 and 1996/97

FRED595P Practical Translation
Telephone ID #: 06620833
Translation practice from French to English and English to French. Texts from fields such as literature, business, politics, law, science and technology, art, and advertising will be translated, analyzed, and discussed in terms of type of language and style of expression.

Class time is devoted to increasing the student's proficiency. Evaluation will be based on class participation, written and oral assignments, and an examination.

Exclusions: FTR470, FTR480, FTR481
Prerequisites: FRED401 (FRED401) or equivalent
Session: Winter Day
F. Magner
Offered 1995/96 and 1996/97

FRE410Y Language Practice II
Telephone ID #: 06611263
A continuation of FRED410.

This course is concerned with the development of fluency, accuracy of expression, and style, through the study of grammar, composition, oral practice, readings, and language laboratory work. Enrolment in each section is limited to 25.

Exclusions: FRED410, native proficiency in French
Prerequisites: FRED410 (FRED410) or equivalent
Session: Winter Day
F. Magner and Staff
Offered 1995/96 and 1996/97

FREN11H French Language Learning in the School System
Telephone ID #: 06621143
This course is offered by the Faculty of Education in conjunction with the Division of Humanities,Scarborough College, and is intended for students considering a career in French language teaching. It will involve a series of seminars as well as preparation for a practicum in local elementary and secondary schools. Enrolment is limited to students already admitted to the Education of Teachers in French Programmes. This course must be taken in second or third year.

Prerequisite: FRED401 (FRED401) or equivalent
Session: Winter Day
A. Cazag
Offered 1995/96 and 1996/97

FREN17F Intermediate Conversation II
Telephone ID #: 06623733
Intensive practice in the spoken language through controlled situational oral work and discussion groups. Attention will be given to the comprehensiveness of major regional varieties as found in the Province of Quebec. As many opportunities as possible will be provided to practise the language and develop a mastery of relevant vocabulary so that students may acquire a reasonable degree of confidence when speaking about everyday life and contemporary topics.

Exclusion: FRS91
Prerequisite: FRED401 (FRED401) or equivalent
Offered in the summer under Study Elsewhere
Session: Winter Day
F. Magner
Offered 1995/96 and 1996/97

FRE595P Commercial French
Telephone ID #: 06624843
The French language in a commercial or economic context.

This course is of interest to students in Business, Business Administration, Computer Science, Economics, Environment and Management, and to all who wish to improve their skills in preparation for entry into a specialized area of the job market. Class meetings will be devoted, among other things, to correspondence writing and to exercises that include the vocabulary and structures involved in the language of business.

In order to provide the student with the basic elements of commercial techniques as practiced primarily in the Canadian francophone business community, the text will be Bonnard and Eklof's Pratique des affaires et correspondance commerciale en francais.

This course may not count towards a Specialist Programme in French, or the Major Programme in French Language and Literature.
Exclusion: FSR366
Prerequisite: FRED401 (FRED401), or permission of the instructor
Session: Winter Day
F. Magner
Offered 1995/96 and 1996/97

FREN22F The Society and Culture of French Canada
Telephone ID #: 06622323
A study of the historical, social and cultural development of French Canadian society, from its origins to 1959.

Lectures will focus on factors which provide the necessary background for an understanding of contemporary French Canadian society. As such this course is a prerequisite for FREN235 and students are urged to plan taking both of these courses in successive years.

Exclusion: FRED901
Prerequisite: FRED401 (FRED401) or equivalent competence.
Session: Winter Day
L. Mignault
Offered 1995/96

FREN235 The Society and Culture of French Canada II
Telephone ID #: 06622353
Contemporary French Canadian society with special emphasis on Quebec since the death of Maurice Duplessis.

Using the insights gained from an earlier study of French Canadian society (FREN22F), this course focuses on the identity issues of the 1980's, the recent nationalist movements, the "Revolution tranquille," and the creative outburst of the 90's and 90's. Special attention will be given to issues related to linguistic and cultural survival, language policies and their impact on federal/provincial relations.

Prerequisites: FRED401 (FRED401) or equivalent.
Session: Winter Day
L. Mignault
Offered 1995/96

FREN385 Francophone Literature
Telephone ID #: 06625553
A survey of literature in the French-speaking world, excluding France.

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 and Switzerland.
Exclusion: FREN142
Prerequisite: FREN10 (FREN80) or equivalent
Corequisite: FREN160 or FREN150
Session: Winter Day
F. Magnier
Not offered 1995/96

FREN265 The Literature of French Canada I:
In 1960
Telephone ID #: 0662333
Representative novels, plays and poetry to 1960.
Intended for the general student of French as well as the specialist. A
discussion-seminar course, with various options for evaluating individual
student performance. Special attention is paid to the historical, cultural, and
political contexts in which literature has evolved in French Canada. Texts will
include: P. Lamblin, La Terre paternelle, L.-H. Fréchette, Félix Poëtré, L. Mailhot and P.
Exclusions: FREN18, FREN176, FREN210, FREN215
Prerequisite: FREN10 (FREN80)
Corequisite: FREN160 or FREN150 (AN204) or permission of instructor
Session: Winter Day
L. Dussere
Not offered 1995/96

FREN275 The Literature of French
Canada II: Since 1960
Telephone ID #: 06623753
Representative novels, plays and poetry since 1960.
Intended for the general student of French as well as the specialist. A
discussion-seminar course, with various options for evaluating individual
student performance. Special attention is paid to the political and social context in which
recent literature has evolved. Texts will include: R. Carrère, La Guerre, yes sir!, J.
Godbout, Les Titres à Péripéties, L. Mailhot and P. Neyens, Le Fils de la gabegie:
Anthology: M. Tanguay, Les Belles-
neuvres: M. Laporte, C'était avant la guerre à L'Isle-aux-Côtes.
Exclusions: FREN18, FREN39, FREN12
Prerequisite: FREN10 (FREN80)
Corequisite: FREN160 or FREN150 (AN204) or permission of instructor
Session: Winter Day
L. Dussere
Not offered 1995/96

FREN365 Theoretical and Practical
Phonetics
Telephone ID #: 06624863
A study of modern French pronunciation.
This course will comprise the following:
general principles of French phonetics, phonetic readings, phonetic
transcription, corrective pronunciation, the study of the relationship between spelling
and pronunciation, and recordings by students themselves. Basic textbook
required: D. Daumet, Course de
Phonétique et de Prononciation.
Limited enrollment per section: 20
Not normally open to native speakers of French.
Individual cases should be discussed with the instructor.
Exclusion: FREN377
Prerequisite: FREN10 (FREN80) or equivalent
Session: Winter Day
C. Bertrand-Jennings and C. Evans
Offered 1995/96 and 1996/97

FREN316 The Classical Age: Comedy
Telephone ID #: 06625133
A study of the development of French comic
theater through the 17th and 18th centuries.
Recommended companion course: FREN255.
The course takes in the work of several
masters of the genre from Molière to
Beaumarchais. It includes such topics as:
variety of comic form, from farce to high
comedy; the Italian influence; the emergence of the
comedy of manners; the courtly comedy of Mazarin.
Course material will be presented through informal lectures and group discussion.
Exclusions: FREN129, FREN141, FREN20, FREN56
Prerequisite: FREN10 (FREN80) or equivalent
Corequisite: FREN140 (AN204) or FREN250 or permission of instructor.
Sessions: Winter Day
J. Curtis
Not offered 1995/96

FREN325 The Classical Age: Tragedy and
Drama
Telephone ID #: 06625253
A study of the tragic and serious theatrical
genre in France during the 17th and 18th
centuries. Recommended companion
course: FREN255.
The course is largely concerned with the
achievements of Corneille and Racine,
France’s most famous “exponents of tragedy.” It also looks at the work of
successive playwrights and at
adaptations of the tragic form pave the way
for modern middle-class drama and the
theatre of ideas. Course material will be
presented through informal lectures and
group discussions.
Exclusions: FREN280, FREN414, FREN320, FREN356
Prerequisite: FREN10 (FREN80) or equivalent
Corequisite: FREN150 (AN204) or FREN250 or permission of instructor.
Session: Winter Day
J. Curtis
Not offered 1995/96

FREN366 The 20th-Century French Novel I:
1930–1945
Telephone ID #: 06625033
A study of representative French
novelists from 1930 to 1945.
Recommended companion course: FREN265.
Following a general historical and
esthetic introduction to the course, works by
representative novelists will be studied in
their own right and in relation to the
society which produced them. Classes,
which comprise both lectures and seminar
discussions, will be conducted in French.
Exclusions: FREN140, FREN70, FREN367, FREN453
Prerequisite: FREN10 (AN204) or equivalent
Corequisite: FREN140 (AN204) or FREN265 or permission of instructor.
Session: Winter Day
S. Matter
Not offered 1995/96

FREN367 The 20th-Century French Novel II:
1945 to the Present
Telephone ID #: 06625153
A study of representative French
novelists from the 1940s to the present.
Recommended companion course: FREN265.
Following a general introduction to the
course, works by representative
novelists of the period will be studied in
their own right as well as in relation to
French society. Classes will comprise both
lectures and seminar-discussions and will be
conducted in French.
Exclusions: FREN140, FREN70, FREN368
Prerequisite: FREN140 (AN204) or equivalent
Corequisite: FREN140 (AN204) or FREN365 or permission of instructor.
Session: Winter Day
S. Matter
Not offered 1995/96

FREN385 French Women Writers
Telephone ID #: 06625133
A study of representative works of fiction by
19th and 20th century women writers from
France. Authors studied might include
Duruy, Sand, Colette, de Beauvoir and Witting.
This course will discuss assumptions
about the sexes and explore how modern
feminist theories have influenced the
way we look at literature. Classes will be
conducted as seminars-discussions in French,
supplemented by some lectures.
Prerequisite: FREN10 (FREN80)
Corequisite: FREN140 (AN204) or permission of instructor.
Session: Winter Day
C. Bertrand-Jennings
Not offered 1995/96

FREN401 Advanced Written French I
Telephone ID #: 06625323
The purpose of this course is to improve
students’ ability to write effectively and
elegantly in French.
Using texts written by native French
speakers as models and productions of
students for the development of problem-solving strategies, students familiarize
themselves with the range of sentence structures and improve their choice of
vocabulary (particularly verbs) in order to express their thoughts with more
precision, complexity, and in a more stylistic manner.
Compositions applications focus on
description of places and persons and on
iteration of events.
Exclusions: FREN382
Prerequisite: FREN10 or equivalent
Session: Winter Day
L. Migaud
Offered 1995/96 and 1996/97

FREN402 Advanced Written French II
Telephone ID #: 06625323
An extension of the work initiated in
FREN401 with regard to style, with specific
emphasis placed on formal correspondence and essay-writing.
Using models produced by native
speakers, students familiarize themselves with the styles appropriate for
each type of correspondence.
Exclusions: None
Prerequisite: FREN401 or permission of instructor.
Session: Winter Day
L. Migaud
Offered 1995/96 and 1996/97

FREN421 Oral Communication for General
Purposes
Telephone ID #: 066048034
A course designed for students who have
already developed an ability to
communicate in French and wish to
improve their degree of competence and
sophistication particularly for the purpose of
public address.
The focus is on comprehension of authentic documents and on clarity of expression, correct delivery, ability to speak from memory notes and to improvise. Public address, media reporting and mock trial situations are techniques used to practice the development of these skills. Exclusions: FSL183, Prerequisite: Permission of instructor or FREN17
Session: Winter Day
L. Magnus
Offered 1995/96 and 1996/97

FREN30 Oral Communication for Specific Purposes
Telephone ID: 06630552
A course for students who are preparing to use oral French for specific job-related purposes: e.g., journalism and subjects related to various fields of the social and political sciences. The focus is on comprehension of authentic documents and on clarity of expression, correct delivery, ability to speak from memory notes and to improvise. Public address, media reporting and mock trial situations are techniques used to practice the development of these skills. Exclusions: None
Prerequisite: FREN17 or permission of instructor
Session: Winter Day
L. Magnus
Offered 1995/96 and 1996/97

FREN90 Comparative Stylistics
Telephone ID: 06630963
A comparative study of expression in English and French, including practice in translating and analysis of selected examples of the translator's art. Students will become familiar with basic terminology and concepts of comparative stylistics through assigned readings and exercises. This approach has the benefit of encouraging close analysis of similarities of expression in French while alerting the advanced student to the pitfalls which must be avoided by those who work constantly with two related languages.
Exclusions: FREN375
Prerequisite: FREN10 and FREN80
Session: Winter Day
J. Coons
Not offered 1995/96

FREN225 Introduction to Medieval French Literature and Language
Telephone ID: 06632223
Readings of short texts in the original and in modern French translation.
Exclusions: FREN225
Prerequisite: FREN10 or equivalent
Session: Winter Day
J. Coons
Offered 1995/96

FREN325 French Literature in the 20th Century
Telephone ID: 06633333
A study of the major trends in French drama from the turn of the century to the present, including an examination of the philosophical concept of the "absurd" and its influence on modern French theatre.
Exclusions: FREN225, FREN325
Prerequisites: One 1-hour course in the group FREN10-FREN80, except (FREN10, FREN80, except FREN17), FREN11 or permission of instructor.
Session: Winter Day
C. Bertrand-Jennings
Not offered 1995/96

FREN400 FREN401 FREN402

FREN575

FREN195 Supervised Reading
These courses offer the student an opportunity to carry out independent study of an advanced and intensive kind, under the direction of a faculty member. In addition to the instructor, other students may be included in the group. A minimum of 20 hours of work per week is expected.
Exclusions: FREN225, FREN325
Prerequisite: At least a B grade for FREN10 or equivalent
Session: Winter Day
C. Bertrand-Jennings
Not offered 1995/96

FREN200 General History of the French Language
Telephone ID: 06634233
A study of the natures and patterns of change in the French language, from its origin to the present day.
Exclusions: FREN375
Prerequisite: FREN10 and FREN80
Session: Winter Day
J. Coons
Offered 1995/96

FREN205 The 10th-Century French Novel
Telephone ID: 06635553
An examination of the ways in which the major writers of 10th-Century France developed the techniques of the novel while exploring the preoccupations of their society. Leading novelists of French literature by such authors as Hainf, Sendall, Fiesbret, and Zoia will be studied. Classes will be conducted as seminar discussions in French supplemented by some lectures.
Exclusions: FREN225, FREN325, FREN364, FREN365
Prerequisites: One 1-hour course in the group FREN10-FREN80, except (FREN10, FREN80, except FREN17), FREN11 or permission of instructor.
Session: Winter Day
C. Bertrand-Jennings
Not offered 1995/96

FREN206 FREN207 FREN208 FREN209

FREN307

FREN195 Supervised Reading
Courses Not Offered in 1994/95

FREN252 Introduction to French Linguistics
Exclusions: FREN275
Prerequisite: FREN10 (B006) or equivalent
Offered 1995/96

FREN275 Y 19th Century French
Exclusions: FREN207
Prerequisite: FREN10 (B006) or equivalent or permission of instructor
Offered 1995/96

FREN285 The Francophone World
Prerequisite: FREN10 (B006) or equivalent or permission of instructor
Offered 1995/96

FREN366 Gaitan en la Literatura
Exclusions: FREN10
Prerequisite: FREN207 or equivalent
Offered 1995/96

FREN368 Introduction to 19th Century French Literature I
Exclusions: FREN252, FREN275, FREN357
Prerequisite: FREN10 (B006) or equivalent
Corequisite: FREN10 (B000A2) or FREN10 and permission of instructor
Offered 1995/96

FREN375 Introductory 10th Century French Literature II
Exclusions: FREN252, FREN357
Prerequisite: FREN10 (B006) or equivalent
Corequisite: FREN10 (B000A2) or FREN10 and permission of instructor
Offered 1995/96

FREN389/589 Women and Women's studies in France
Exclusions: FREN190, FREN881
May be offered 1995/96

FREN390/590 Introduction to Quebec and French Canada
Exclusions: FREN222, FREN233, UN590
May be offered 1995/96

FREN195 Supervised Reading
Exclusions: FREN225
Prerequisite or corequisite: One full course equivalent from the sequence FREN10-CORE (B020-CORE)
Offered 1995/96
**Geography**

**B.A.**

- **Discipline Representative:** John Minon (287-3731)
- **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. As an earth and environmental science it deals with the physical processes of the earth's surface and its atmosphere. It is a subject which is excellently 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. The Geography Programmes at Scarborough focus on the cultural, economic, political and social aspects of the subject, with particular emphasis on applications to development, planning and environmental management. Geography courses therefore complement other social science programmes. They are also listed as options in several College Programmes including Canadian Studies, Women's Studies, Environmental Science, and the Co-op Programmes in Administration and International Development. While the Geography Programmes have a social science emphasis, students are encouraged to take some of the physical geography courses listed under the EES designation.

- Courses in Geography now qualify for a B.A. degree. For students previously registered in a physical geography programme leading to a B.Sc. degree the following are considered to be science courses:
  - EES081
  - EES083
  - EES109
  - EES152
  - EES150
  - EES153
  - EES154
  - EES205
  - EES253
  - EES254
  - EES256
  - EES260
  - EES265
  - EES270
  - EES304
  - EES305
  - EGS256
  - EGS270
  - EGS304

**Minor Programme in Geography**

**Supervisor:** M. Bunce (287-3731)

The requirements for this Programme are seven full-course equivalents in Geography, which must include:

1. GGRA040W and EES050P (EES050P)
2. At least two full-course equivalents in Geography at the C-Level or D-Level.

**Major Programme in Geography**

**Supervisor:** M. Bunce (287-3731)

The requirements for this Programme are four full-course equivalents in Geography, which must include GGRA040W and one full-course equivalent at the C-Level or D-Level. 

**Note:** Students registered at Scarborough College prior to the 1993-94 session may count all EES courses previously listed as GUR courses towards the fulfillment of Special and Major Programmes.
develop specific regional interests in course tutorials.
Prerequisite: EES-A01
Session: Winter Day TBA

GGR5915Y Urban Geography
Telephone ID: #069252563
This course will develop understanding of the geographic nature of urban systems and the internal spatial patterns and activities in cities. Particular emphasis is placed on the North American experience, although some examples will be drawn from other regions of the world. The course will explore the location and growth of cities; explore the internal organization of cities, especially with regard to residential, social and economic activities; and shed light on the major issues and problems facing contemporary urban society.
Prerequisite: GGR524
Session: Winter Day, Summer Evening TBA

GGR605F Planning in Canada
Telephone ID: #06925263
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. This course provides an understanding of planning as currently practiced, and introduces students to the institutional basis of planning.
Three hours of lectures per week.
Prerequisite: GGR604
J. Mireon

GGR819F Modern Urban Landscapes
Telephone ID: #06921133
An examination of the appearance of modern cities. Two key questions are considered: How have cities come to look as they do? What can be learned about modern societies by studying their visual environment? A major part of the course is a survey of the theories of architecture and urban planning from about 1880 to present; that is from the industrial age, through modernism to post-modernism. Assignments will emphasize methods for the observation, analysis and graphical presentation of urban land use, activities in public spaces and built forms.
Prerequisite: GGR804
Session: Winter Evening E.C. Ralph

GGR8175 Rural Land Use Studies
Telephone ID: #06921375
The study of patterns and processes of rural land use. Emphasis will be placed on the nature and impact of recent changes in the agricultural, residential and recreational use of rural land in urbanizing regions. Lectures and readings will survey the land use theories and some of the recent empirical studies of land use change, drawing examples from different parts of the world. Particular attention will be paid to the problems of describing and analyzing rural land use change. Field and laboratory projects will introduce students to the methodology of rural land use study, including land use surveys and mapping, farm surveys, and the use and interpretation of remote sensing information and Geographic Information Systems. Students will be expected to complete a field research project. A two-hour lecture and a one-hour lab each week.
Prerequisite: One of GGR404, IDS901, or IDS902
Session: Winter Evening M. Bunce

GGR297F Location and Spatial Development
Telephone ID: #06922733
Application of competitive location theory to explain economic landscapes. Topics includeue Cartesian rents and spatial equilibrium, trade flows and spatial price equilibrium, geographic market areas, and spatial pricing policies, location of a firm with mobile resources, and trade theory and regional specialization. Three hours of lectures per week.
Prerequisite: GGR295, IDS901
Session: Winter Day J. Mireon

EES601F Principles of Geomorphology
See Environmental Science

EES602F Principles of Climatology
See Environmental Science

EES603F Hydrology: Measurement, Estimation and Forecasting
See Environmental Science

EES604F Urban and Suburban Land Use
See Environmental Science

GGR509F Countryside Conservation
Telephone ID: #06937033
The problems and policies of countryside conservation in Western Europe and North America. Particular attention will be paid to the origin of conservation and preservation attitudes to the natural and human landscapes of rural areas, and to their impact on rural planning. Topics will include urban containment, agricultural land preservation, land protection, conservation of natural environments and rural heritage, and the management of countryside recreation. Field work and case studies will be an integral part of the course.
Prerequisite: GGR510 and GGR517
Session: Winter Day M. Bunce

GGR518F Urban Transportation Policy Analysis
Telephone ID: #06931655
This course examines current problems in urban transportation planning using policy analysis. Topics include setting of community goals, economic and social cost-benefit analysis, evaluation of redistributive impacts, impacts of transport projects on land values, mass transit subsidies, and regulation/legislation. The course examines insights gained from contemporary empirical research. Three hours of lectures per week.
Prerequisite: GGR524
J. Mireon

GGR596F Problems in Modern Agricultural Land Use
Telephone ID: #06932503
Examination of the land use problems created by rapid changes in modern agriculture. Emphasis will be placed on the impact of high technology, corporate economics and urbanization upon the agricultural land use and landscapes. The course is thematic in approach and will include such topics as changes in land tenure, chemical applications in farming, agribusiness, fragmentation, land abandonment and conversion, urbanization of farmland. One two-hour seminar each week plus individual consultation.
Prerequisite: GGR510 and GGR517, or IDS901 and IDS902.
Session: Winter Day M. Bunce

GGR345 Landscaping Interpretation
Telephone ID: #069345
Ways of interpreting and analyzing landscapes through field investigations of specific places, both urban and rural. The course involves a number of field trips (held in class time) followed by discussion and analysis of observations, with an emphasis upon individual landscape features and methods of observation and interpretation.
Limited enrollment: 20
Prerequisite: GGR510
E.C. Ralph

GGR414F Current Topics in Human Geography
Telephone ID: #06934333
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.
Limited enrollment: 20
Prerequisite: GGR404 and one 3-level full-course equivalent in Human Geography.
Session: Winter Day K. MacDonald

EES501F Biogeography and Diversity
See Environmental Science

EES508F Coastal Geomorphology
See Environmental Science

EES515F Soil Management in Temperate Regions
See Environmental Science

EES511F Tropical Soil Management and International Development
See Environmental Science

GFF610 Supervised Research
Telephone ID: #06940163
Under the supervision of a member of faculty. Topics may be suggested. Winter semester.
Limited enrollment: 20
Courses Not Offered in 1994-95

GGBR3175 Data Analysis in Geography: An Introduction
Exclusion: GGBR2170
Prerequisite: GGRAA04 or GGBR65

GGBR240F Urban Residential Geography
Prerequisite: University level half course in data analysis
(e.g. STAD22) and GGBR65 or GGBR06

GGR006F Women and the City
Prerequisite: GGBR65 or B-level course in Women’s Studies

GGBR139F Urban Political Geography
Exclusion: GGBR120, GGR319
Prerequisite: GGBR05

GGRS247F Quantitative Research in Geography
Prerequisite: University half-course in data analysis

GGBR219F Urban Development and Planning of Metropolitan Regions
Prerequisite: GGBR65 (or equivalent) and one or
GGBR257

GGBR220F The Greater Toronto Area
Prerequisite: GGBR65 and GGBR13

Physical Geography courses are now listed in EES.

Geology

Please refer to the Environmental Science section of the Calendar for courses.

Please refer to the Physical Sciences section of the Calendar for the following programs:

- Specialist Programme in Environmental Science
- Specialist Programme in Environmental Earth Science
- Specialist Co-op Programme in Environmental Science
- Major Programme in Environmental Science

- GERA01Y Introductory German
- GERA09H Language Practice I
- GERB01Y Intermediate German
- GERB01Y Language Practice II
- GERO01F The Last Hundred Years
- GERO02F History of the German Language

GERO230F Language in a Literary Context
GERO290F Language Practice III
GERO290F Advanced German
GIRA90Y General Linguistics (a more theory-oriented course)

Minor Programme in German Language
Supervisor: H. Oldendorf (287-7136)

The Minor Programme requires that students take the following courses:
- GERADY Introductory German
- GERADY Language Practice I
- GERADY Intermediate German
- GERADY Advanced German
- GERO01F The Last Hundred Years

Language requirements will be waived by the Supervisor for students judging to have advanced knowledge of German.

Equivalent courses will be substituted in consultation with the Supervisor. Courses in German Literature in the Original will continue to be available under the rubric of supervised reading.

See also the following courses in translation:

HUMAN01Y Introduction to Literature
DRAZ7F Dramatic Literature
DRAZ7F Political Revolution
DRAZ7F Science, Power and Myth: The Story of Dr. Faustus

GERA01 Y Introductory German
Telephone ID #: 09811063

The fundamentals of the German Language. Grammar, syntax, and vocabulary are introduced to provide a basic knowledge of the language. Three hours per week of intensive language work. Students are also encouraged to make use of the available computer language learning programs.

Exclusion: GERO01, GERO01

Comquisite: GERA09H

Section: Winter Day
U. Tesser-Sherman
Offered every year

GERA01Y Language Practice I
Telephone ID #: 08410943
A practical complement to GERA01Y.

This course is designated as a core and supplement through oral practice the grammar work done in GERA01Y, as well as to expand the students’ skills to communicate in German. The course will meet twice a week throughout the year.

Course work can be supplemented by computer-based language programs available in the Resource Room.

Students are advised that they must obtain permission from the instructor before registering for this course.

Exclusion (GGBR01Y)
Prerequisite: Any 10 full course equivalents including at least five equivalents in Geography and GGBR65 or equivalent.
Session: Winter Day

GGR0005 Issues in Rural Development
Telephone ID #: 06940063

An examination of the special problems of rural areas in an urbanizing world and associated development strategies. Particular attention is to the underlying causes of rural poverty and disadvantage, the role of rural economies in national development, and to the basic theories of rural development.

Exclusion: GGBR01Y
Prerequisite: 10 full course equivalents and GGBR65 or EBR01 and ESB02
Session: Winter Day
K. MacDonald

EES001F Theoretical Geomorphology
see Environmental Science

EES001F Sedimentary Models
see Environmental Science

EES001F Hillslope Geomorphology
see Environmental Science

EES001F Climatic Change
see Environmental Science

EES001F Hydrology: Physical Processes and Modelling
see Environmental Science

GERA01Y Introductory German
Telephone ID #: 08410943
A practical complement to GERA01Y.

This course is designated as a core and supplement through oral practice the grammar work done in GERA01Y, as well as to expand the students’ skills to communicate in German. The course will meet twice a week throughout the year.

Course work can be supplemented by computer-based language programs available in the Resource Room.
GER209 Intermediate German

Telephone ID #: 06832003

Intensive language work involving a review of grammatical principles in the context of readings, oral exercises and written compositions.

Monograph material on current events may be introduced from time to time to spark class discussion.

Exclusion: GER208, GER210

Prerequisite: OAC German or Grade 13 German or GER409 and GER110

Corequisite: GER410

Session: Winter Day

H. Ohlenbrock

Offered every year

GERC101 The Last Hundred Years

Telephone ID #: 06833125

In this course, the student is introduced to the most important aspects of Germany’s recent history and culture beginning with the end of WWI and taking into account the effects of Nazism, WWII and the division of Germany. The course also attempts to understand the forces and pressures which brought about the unification of Germany. In addition to the material provided through lectures and text book readings, there will be readings and discussions of relevant contemporary literature and films.

The course is taught in English.

Exclusion: (GER249/6)

Session: Winter Day

U. Lasser-Sherman

GERC205 Language in a Literary Context

Telephone ID #: 06833033

An introduction to the varieties of critical analysis.

The course will look at short works of literature as examples of the particularly refined use of language. It is intended to familiarize the language student with the conventions and the aesthetic imperatives of literary analysis.

All sessions are informal tutorials with free-flowing discussions and a high degree of student involvement. Each student is asked to prepare a number of short presentations.

Exclusion: GER208, GER210

Prerequisite: GER419 and GER420

Session: Winter Day

U. Lasser-Sherman

GERC403 Language Practice III

A course complementary to GER101. This course will continue the work done in GER101. The communicative skills of the students will be further developed by a variety of exercises in oral and written composition around current topics of interest. Much emphasis will be placed on the needs of individual students and their aspirations towards bilingualism.

Exclusion: GER310, GER431

Corequisite: GER101

Session: Winter Day

H. Ohlenbrock

Offered every year

GERC107 Advanced German

Telephone ID #: 06832003

A continuation of language work done in GER207.

Language exercises will be centered on different texts. A review of grammar and syntax on an advanced level will reinforce the students’ ability to read, speak, and write. Material on current events will be used as much as possible. The course continues in the tradition of the previous course, but the students’ ability to write and converse in German will be assessed.

Exclusion: GER201

Session: Winter Day

U. Lasser-Sherman

Offered every year

GERC125 German in Commerce and Management

Telephone ID #: 06831553

An introduction to the business of Germany.

Building on grammar and vocabulary knowledge already acquired, the course aims to enable students to correspond and converse in basic business situations.

Exclusion: GER270

Prerequisite: GER419 and GER420 or equivalent

Session: Winter Day

U. Lasser-Sherman

Offered every year

GER206D, DH1, DH15

GER207Y Supervised Reading

Courses are designed to give students an opportunity to study German literature in the original and to follow up on ideas generated during the formal courses of instruction. Topics and projects are formulated in close consultation between student and supervisor chosen by student.

Exclusion: GER305, GER339, GER419, GER345, GER434, GER435

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

Prerequisite: GER419 and GER420

Session: Winter Day

H. Ohlenbrock

Offered every year

GER207Y Supervised Reading

Courses are designed to give students an opportunity to study German literature in the original and to follow up on ideas generated during the formal courses of instruction. Topics and projects are formulated in close consultation between student and supervisor chosen by student.

Exclusion: GER305, GER339, GER419, GER345, GER434, GER435

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

Prerequisite: GER419 and GER420

Session: Winter Day

H. Ohlenbrock

Offered every year

GERC027S Greek History from the Bronze Age to the Death of Alexander

GERC029H The Romanization of Western Europe

For further information see under Classical Studies.

History (BA)

Discipline Representative: A. N. Shaps (MA 71-133)

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 hierarchic; its methods draw from all forms of scholarly endeavor. History courses, therefore, can play a part in a number of interdisciplinaries programmes and can serve as an adjunct to courses in Political, Philosophical, Literatures, Economics, and Sociology. 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. HIS101Y provides both a general introduction to the study of history at the university level, and the preparation for further studies in European history. HIS201Y is a general interest course. A series of survey courses (HIS250-6Y) provides a comprehensive foundation of knowledge in their particular areas, and also serves as preparation for more detailed and advanced studies. In upper-level courses students investigate more specific areas, periods, or problems. "Survey" courses are conducted in seminars. In these seminars students read and discuss primary sources, and present their findings in discussions and major essays. There are sequences of courses at all levels in the following areas: Medieval European, Modern European, British, American, Canadian, Roman, and Ancient Greek and Roman.
Note: Students are advised to consult the prerequisites for C-level and D-level courses when planning their individual programmes.

Courses offered in 1994-95

**H3A01Y The European World: An Introduction to History**

Telephone ID: 07520163

A survey of European history from the Middle Ages to the present.

This course examines the most prominent changes in social and economic organization, in thought, and in politics, as Europe developed from a feudal and agrarian to a modern and industrial order. The teaching method is based on lectures and tutorials. A set of readings from primary and secondary sources will be assigned, but further reading by the student is essential.

Exclusions: HIS106, HIS109

0.5 Pre-1815 credit

European Area

Session: Winter Day

J. Pearl, M. Ekstein

Offered 1995/96 and 1996/97

**H3B07Y Britain from the Eighteenth Century to the Present**

Telephone ID: 07520263

An examination of the political, social, economic, and religious forces which transformed an agrarian society into an industrial power, and of the reasons for the decline of British power in the twentieth century.

The course will be concerned with the problems caused by the transformation of an agrarian into a highly industrialized economy, of an aristocratic into a liberal democratic society, and of a society based on the ideology of the Enlightenment into one committed to that of evangelical humanitarianism. It will also consider why, in the twentieth century, the British abandoned their imperial role and concentrated on the establishment of a welfare state. Two lectures per week.

Exclusions: HIS239

British Area

Session: Summer Evening and Winter Day

F. Jaccottet

Offered 1995/96 and 1996/97

**H3B08Y History of Africa since 1800**

Telephone ID: 07520321

An introduction to the history and cultures of Africa, primarily sub-Saharan African societies.

The main topics will include population movements, trade and technology, the growth of African kingdoms and empires, the impact of the interaction between Africa and the industrial West, the historical development of African peoples during and through the partition of Africa, colonial domination and resistance, economic change and modern nation-building.

Prerequisite: None

Exclusions: (H1M30)

Session: Water Evening

FBA

**H3B09Y Europe in the Middle Ages**

Telephone ID: 07520553

A chronological survey of economic, political, religious, and social developments in Western Europe (including Britain) from the late Roman Empire period to the fifteenth century.

The object of this course is to familiarize students with the foundations of Western society as they evolved in conjunction with the early settlement, colonization, and subsequent expansion of Europe. Particular attention is paid to the peculiar circumstances which determined national boundaries and which led to the division and conflicts of the modern world, and (ii) to the origins and development of our own religious, legal, educational and political institutions.


Exclusion: HIS220

Pre-1815 credit

Medieval Area

Session: Winter Day

FBA

Offered 1996/97

**H3B07Y Russia from the Thirteenth Century to the Present**

Telephone ID: 07520763

The Russian people, state, and culture, with emphasis on the major, basically, institutional, and ideological changes from the rise of Moscow to the present.

Wherever possible readings have been selected from primary source materials so that students will become acquainted not only with the facts but the flavour of Russian history. Lectures and discussion.

Exclusions: HIS250

0.5 Pre-1815 credit

Russian Area

Session: Winter Day

G. F. P. South

Offered 1995/96 and 1996/97

**H3B08Y The Sixteenth Century Religious Reformation**

Telephone ID: 07520683

How and why does a culture renew its religious and human accomplishments when it does?

In the early sixteenth century most western European Catholics, by the end of the century Catholicism had changed greatly and several minorities had replaced it with other forms of Christianity (e.g. Lutheranism, Calvinism, Anglicanism, "abomination"). The course explores the breakup of the medieval church, the creation of the modern forms of Western Christianity, and the connections between ideas and social change.

Exclusion: HIS213 (H3S92Y)

Pre-requisite: H3A01Y

0.5 Pre-1815 credit

Session: Winter Day

FBA

Not offered 1995/96

Offered 1996/97
HSC10Y The Seces Since 1350
Telephone ID: 07531263
An exploration of changing definitions of femininity and masculinity from the Renaissance to the recent past.
Topics will include: changes in expectations for men and women in their domestic, parental, and public roles (with the latter including education, employment, politics, and war); relations between the sexes; feminism and anti-feminism. The focus will be on the British Isles, Western Europe, and Canada, and on the nineteenth and twentieth centuries. Lecture and discussion: three hours.
Exclusion: (HHS11H) HRS30
Prerequisite: One of HIS401, HIS602, HIS803, HIS804, or WSTA301 (HIS401).
Session: Winter Day
L. J. Albrecht
Offered 1995/96 and 1996/97

HSC11Y France from Reformation to Revolution 1500-1789
Telephone ID: 07531163
The development of French politics and society from the wars of religion to the reign of Louis XVI.
This period is characterized by rapid, often traumatic change in which France forcefully asserted itself as the principal power on the European continent. Special consideration will be given to the relations between political developments and social, religious, and intellectual phenomena. One two-hour lecture and one tutorial session per week.
Exclusion: (HHS11H) HRS30
Prerequisite: HIS60Y
Session: European Area
Winter Day
J. L. Pearl
Not offered 1995/96

HSC14Y Europe in the Enlightenment, 1700-1789
Telephone ID: 07531363
An examination of the ideals of the Enlightenment against the background of the social and political reality of Europe in the eighteenth century.
The emphasis will be placed on the incorrigibility of theory and practice in the writings and policies of the enlightened despots. In the first term the course will focus on the ideas of the Enlightenment and the social, economic, and intellectual systems which spawned them. In the second term the attempt of the so-called enlightened despots to apply Enlightenment ideas to the life of their states will be examined. Lectures and discussion.
Exclusion: (HHS11H) HRS344
Prerequisite: HIS401
Pre-1815 credit
European Area
Session: Winter Day
E. W. Doucet
Offered 1995/96 and 1996/97

HSC22Y Tudor and Stuart England
Telephone ID: 07532263
England from the end of the Wars of the Roses to the Glorious Revolution, 1485-1688.
The course gives an overview of political, economic, social, and cultural patterns. Special attention will be given to four themes: the powers and personalities of the rulers; Parliament and the rule of law; the great religious crisis and its spillover into civil war, the cultural heritages. Two lecture hours and one tutorial per week.
Exclusion: (HHS22H) HRS324
Prerequisite: Any B-level full-course equivalent
Pre-1815 credit
British Area
Session: Winter Evening
TBA
Offered 1995/96 and 1996/97

HSC31Y Slavery and the American South
Telephone ID: 07531533
An examination of Southern society and slavery from the colonial period to the Civil War. Topics will include the origins and growth of slavery and the plantation, the economics of slavery, race relations, and the under slavery and Southern political and social structure and ideas.
Exclusion: (HHS311) HIS311
Prerequisite: HIS803
American Area
Session: Winter Day
M. Wayne

HSC35Y Immigrants and Race Relations in Canadian History
Telephone ID: 07534533
The history of immigration, immigration policy, and race relations in Canada from the first European contact period to the post-World War II era. Organized partly chronologically and partly by theme, the lectures and reading material will introduce students to the various sources and methodologies of the field and to the diversity of the scholarly experience in Canada. Immigrants' lives as pioneer farmers, male domestics, industrial workers, domestic servants, entrepreneurs, radicals, and as members of families are considered.
The course highlights the experience of such groups as Canada's first peoples, the families Irish, West Coast Indians, continental Europeans, and American and West Indian Blacks.
Prerequisite: HIS404
Session: Summer Evening
F. Lacroix
Not offered Winter Session 1994/95 and 1995/96
Offered 1995/96

HSC44Y Atlantic Canada
Telephone ID: 07534463
An examination of the Maritime provinces and Newfoundland from the first European contact to Confederation in each province.
Subjects to be investigated include: native peoples and the impact of European contact; French regime and the development of a distinctive Acadian people; the dispersal of the Acadians; British settlement; responses to the American Revolution; the Loyalist impact; colonial economic and social structures; literary and intellectual developments; struggles for responsible government, and its eventual loss in Newfoundland; religious and ethnic tensions; fisherman's movements in Newfoundland; the coming of Confederation. One two-hour lecture per week, plus tutorials. Written work will include two research papers.
Exclusion: (HHS446) HIS446
Prerequisite: HIS310
0.5 Pre-1815 credit
Canadian Area
Session: Winter Day
J. R. Robertson
Offered 1995/96 and 1996/97

HSC47Y The Canadian Left, 1867 to the Present
Telephone ID: 07534763
An investigation of farmer, labour, and socialist movements since Confederation, their roots in the changing social structures, and their political manifestations.
The emphasis will be on the twentieth century, and attempts will be made to assess the significance of the international affiliations and/or origins of the various movements, and to account for the unique character of the Canadian Left. In broad terms, the course objectives are (1) to encourage the study of social classes who have been excluded from the exercise of power in Canada, and to examine the ways in which they have organized to protect their interests; and (2) to explore the relationship between social change and popular, reform, radical, and socialist movements. One two-hour lecture per week, plus tutorials. Written work will include two research papers.
Exclusion: (HHS47Y)
Prerequisite: HIS404
Canadian Area
Session: Winter Day
J. R. Robertson
Not offered 1995/96
Offered 1996/97

HSC48Y Black Canadian History, 1605-1919
Telephone ID: 07534893
An examination of the history and presence of people of African descent from their earliest known arrival in Canada to the end of World War I, placing the black Canadian historical experience within the context of Canadian history.
Topics will include: black immigration, slavery in New France, British North America and Canada, the impact of American slavery, Canadian anti-slavery movements, and Caribbean immigration, the growth and development of Canada's black communities, and their religious, educational and political experiences and institutions.
Prerequisite: HIS404
Canadian Area
Session: Winter Evening
TBA

HSC79Y Social History of Imperial Russia, 1700-1917
Telephone ID: 07537833
The development of Russian society from the revolutionary reforms of Peter the Great to the counter-revolutionary reforms of Alexander III. The evolution of social classes, the nature of Russian peasant society, women in society, urbanization, and proletarianization will be among topics discussed in the course.
Prerequisite: HIS807
Russian Area
Session: Winter Evening
TBA
Not offered 1995/96

HSC60Y Revolutionary France, 1780-1800
Telephone ID: 07536633
The age of revolution and its continuing importance.
The course will study the elements of tradition and continuity in this period as well as some obvious areas of radical break with the past. A two hour lecture
period and a one-hour tutorial per week. 
Prerequisite: HIS 301
0.5 Pw-1815 credit 
European Area
Session: Winter Day
J.L. Pearl
Not offered 1995/96
HIS 307V Germany in the Nineteenth and Twentieth Centuries 
Telephone ID #: 07583763
A thematic treatment of German history from the end of the Holy Roman Empire to the present.
The course will concentrate on social, economic, and cultural interpretations of 
Germany's political experiences. 
Two consecutive hours of lectures and one hour of central per week. A set of 
readings from primary and secondary sources will be assigned, but extensive 
reading is essential. 
Exclusion: HIS 317
Prerequisite: HIS 301
European Area
Session: Winter Evening
M. Ethore
Not offered 1995/96
Offered 1995/97
HIS 309F History of Feminism since the 
Eighteenth Century 
Telephone ID #: 07541033
The ideas and causes of women and men who challenged the roles assigned to 
women from the French Revolution to the present. 
The course will focus on the challenges to women as one of the longest 
struggles against discrimination in western history. After 
industrialization feminists waged a 
broadening crusade for economic, 
educational, civil, and political rights. 
These campaigns, their social contexts, and the ideas of the antifeminists will be 
examined through an examination of the feminists' own 
views of and their own methodologies. 
Interpretations will also be paid to 
comparisons between historical and 
temporary feminisms and between 
feminism and other campaigns against 
the status quo. 
Prerequisite: HIS 310Y 
British/European Area 
Session: Winter Day 
J.L. Pearl
Offered 1995/96 and 1996/97
HIS 315S Crime and Punishment in Early 
Modern Europe 1500-1800 
Telephone ID #: 07541153 
A seminar investigating the concept of law, court systems, and punishments in Early 
Modern Europe. 
The course will examine the history of legal systems and the nature of society and 
judicial courts. Lay courts and ecclesiastical courts (inquisitions) will be 
studied. The use of torture, corporal, and capital punishment will be examined in the 
context of society and its values. 
Limited enrollment: 20. 
Prerequisite: HIS 301 and one B or C level 
course in history. 
0.5 Pw-1815 credit 
British/European Area 
Session: Winter Day 
J.L. Pearl
Not offered 1995/96
HIS 322Y Colonial and Revolutionary America 
and the British Empire, 1607-1787 
Telephone ID #: 07541263 
An examination of the origins of 
American society and institutions in the seventeenth century and their development in the 
colonial period. The origins, course and effects of the American Revolution and the 
and the Constitution and their relation to 
British political thought, and the impact of the 
Revolution on British North America and Britain. 
A two-hour weekly seminar, based on 
suggested readings and class discussion.
Exclusion: HIS 324Y, HIS 470 
Prerequisite: Any one of HIS 320, HIS 350, 
HIS 354 or HIS 318 (HIS 170). 
0.5 Pw-1815 credit 
American/British Area 
Session: Winter Day 
J. N. Seppa
Not offered 1995/96
HIS 324S Select Topics in Canadian 
Women's History 
Telephone ID #: 07544653 
A seminar investigating the role, lives, and 
struggles of women in Canada from the time of 
initial European contact with the First 
Peoples to the post-World War Two era. 
The course will highlight the challenges faced by women in Canadian society, the 
relations between men and women and 
men and women from different class, 
ethnic/racial, and political backgrounds, 
and the impact of state policies on women 
and gender relations. Topics could include 
native women in fur trade society, rural 
women, women and the law, sexuality and 
crime, middle-class women's roles in 
religion, reform, and politics, working 
class and urban women, and immigrant and 
minority women. 
Limited enrollment: 15. 
Prerequisite: Any course in Canadian 
history or HIS 310Y or HIS 315S 
Canadian Area 
Session: Winter Evening 
J.L. Pearl
Not offered 1995/96
Courses in Classical Studies (see Classical 
Studies for full course descriptions offered in 
1995/96) 
GRN4901Y Greek History from the Bronze 
Age to the Death of Alexander 
Course: 1815 credit 
Ancient Greek and Roman 
Session: Winter Day 
A. Biddington
Prerequisite: HIS 301 
Canadian Area 
Session: Winter Day 
J. L. Couch
Not offered 1995/96
CLA 415F Slavey in the Roman Economy 
Prerequisite: CLA 201Y 
Exclusion: GRN100Y 
Session: Winter Day 
J. L. Couch
Not offered 1995/96
CLA 4251Y Army and Empire in the Roman 
World 
Prerequisite: CLA 201Y 
Exclusion: GRN 100Y 
Session: Winter Day 
J. L. Couch
Not offered 1995/96
CLA 500F History of Women, Family and 
Household in Ancient Societies 
Prerequisite: CLA 201Y 
Exclusion: HIS 324S, CLA 219H 
Session: Winter Day 
M. E. Ethore
Not offered 1995/96
Courses Not Offered in 1995-96 
HIS 140V The Twentieth Century 
Modern France 1750 to the present 
Exclusion: HIS 170 
Prerequisite: HIS 301 or 
permission of instructor 
HIS 305F Social and Political 
Factors in the United States, 1790-1850 
Prerequisite: HIS 301 
HIS 335Y Twentieth-Century America 
Exclusion: HIS 317, HIS 318, HIS 322Y 
Prerequisite: HIS 301 
HIS 349SF Canada Between the World 
Wars 
Prerequisite: HIS 301 
HIS 379F Social History of 
Revolutionary Russia, 1900 to the Present 
Prerequisite: HIS 301 
HIS 384M Pop Culture in Early 
Modern Europe 
Exclusion: HIS 314, HIS 318 
Prerequisite: HIS 301 
HIS 385Y The Making of Modern Society 
Exclusion: HIS 315, HIS 317 
Prerequisite: HIS 301 and two 
other courses in post-1815 
British history, either European or 
North American 
HIS 384Y European Society and Culture 
in the Twentieth Century 
Exclusion: HIS 317, HIS 318, 
HIS 312 
Prerequisite: HIS 301 and one 
B or C-level course in history 
HIS 394F Revolution in the 
Habsburg Monarchy, 1770- 
1790 
Exclusion: HIS 324Y, HIS 322Y, HIS 322Y 
Prerequisite: Any one of 
HIS 320 or HIS 315 or HIS 318 
HIS 390Y The Crusades 
Exclusion: HIS 324Y, HIS 322Y 
Prerequisite: HIS 301 
HIS 397Y The Russian 
Revolutionary 
Exclusion: HIS 384Y 
Prerequisite: HIS 301
Humanities (BA)

Discipline Representative: C.V. Ponnacott (287-7166)

"The study of culture is largely the study of continuity, and it is this sense of continuity rather than of uncritical acceptance we hope to impart to our students. We want them to acquire a habit of mind that looks for these continuities not only within the confines of their special field, but in all the manifestations of culture that surround them."

E.R. Goimrich

"Civilization means something more than energy and will and creative power... How can I define it? Well, very shortly, a sense of permanence." — Kenneth Clark

As one of the College’s four academic Divisions, Humanities comprises twelve distinct disciplines, such as Classical Studies, English, History, and the Modern Languages. Each of them offers a range of courses in its own area and its own programme(s) of study. These are listed under the pertinent headings in the Calendar.

In addition, the Division offers, under the rubric HUM, a number of courses which fall outside the purview of the traditional disciplines. These are concerned mainly with culture, civilization, and literature, and all have readings and instruction in English. These courses help establish an intellectual context in which staff and students can explore new approaches to learning and benefit from a more comparative and interdisciplinary approach to knowledge.

Within this context the Division offers a more general programme than is found in many of its traditional disciplines. The College Programme in Humanities. The requirements for this Programme are set out below, followed by a list of the HUM courses offered this year, several of which may form part of this Programme.

A number of individual disciplines also offer courses in English in the literature or culture of particular countries. These are relevant to the College Programme in the Humanities but are open equally to all interested students. They are listed under the HUM courses.

**College Programme in the Humanities**

**Supervisor:** W.C. Graham (287-7149)

This programme offers what is often called a Liberal Arts education. It aims to help students develop their critical skills and to introduce them to a range of different intellectual approaches, so that they may use these tools in the study of some of the cultural achievements of humankind.

Though European culture plays a large role in the programme, students are encouraged to look beyond it to other world cultures. The course structure outlined below is a framework; it is for the student, in consultation with the supervisor, to work out an appropriate context.

Note: full-course equivalents are required, as follows:

1. **HUM00Y**
2. **HUM01Y**
3. **PFL00Y**
4. **HIS00Y**

One full-course equivalent in the Arts:

1. **DRA00Y**
2. **FAR00Y**
3. **MUS00Y**

One full-course equivalent in language, literature or linguistics:

1. **CLA00Y**
2. **DRA00Y**
3. **ENG00Y**
4. **FRE00Y**
5. **GER00Y**
6. **HIS00Y**
7. **HUM00Y**
8. **MUS00Y**
9. **SPA00Y**

One full-course equivalent in literature, linguistics or philosophy:

1. **ANT00Y**
2. **ANT01Y**
3. **ANT02Y**
4. **ANT03Y**

**Specialised Programmes in the Humanities**

The Specialised Programme in the Humanities is no longer offered, but students currently enrolled in it will be allowed to complete the programme.

**HUM000Y Prolonge II: East Asia and the Middle East**

**Telephone ID #: 07811056**

An introduction to the cultures of China, Japan, India, Persia and the Islamic traditions through the reading of a selection of the most important writings.

Texts will be chosen from the following:

- **Lao Tzu** Tao-te Ching. Journey to the West (Monkeys); Confucius: Teachings; Poetry of the Tang Dynasty, Tale of Genji, The Treasury of Loyalty, Benighted. Insha: The Narrow Road to the North; Unvadhi, Vahidh, Kembade, Buddhist Scriptures, Bhagavad Gita, Panca Tantra. Poems from the Sanskrit (esp. Kalidasa), The Ode of Zakia, Selections from the Qur'an, the same by Shade and Joseph; Arabian Nights; Sea Stories; Ibn Tufayl, Hayy Ibn Yaqzan. Selections from Moezzi and al-Ma'arri.

**Session: Winter Day**

Co-ordinator: TBA

Not offered 1995/96

**HUM0005 Russian Short Fiction of the 19th and 20th Centuries**

**Telephone ID #: 07832053**

A study of significant themes in Russian literature in the 19th and 20th centuries. The course will deal with themes such as the "superfluous man," the Romantic hero and the anti-hero, love, death, and the dehumanization of character.

**Session: Winter Day**

Co-ordinator: TBA

Not offered 1995/96

**HUM0008 The Modernist Adventure**

**Telephone ID #: 07824263**

A comparative exploration of the crisis of modern artistic consciousness in selected works of French, German, Hispanic, and Russian literature, focusing on the period 1870-1914. The students will examine, in terms of their historical context, literary evolution, and selectness to the twentieth century, themes and attitudes associated with such topics as: pessimism, escape, and spiritual quest; revolution and the creative will; hypersensitivity and alienation; drugs and dreams; the cult of culture; legend, myth, and fantasy; the role of music and pictorial art.

Representative texts (mainly prose) will be read and discussed in English. Guest lectures on selected subjects.

Exclusions: (BIO120L, SF/H101L, LIT120R)

**Session: Winter Day**

C. V. Ponnacott

Offered 1995/96

**HUM0009 The Greeks**

**Telephone ID #: 07820863**

An introduction to the history, literature and culture.

**Session: Winter Day**

C. V. Ponnacott

Offered 1995/96
HUMB851 Modern German Prose
Telephone ID #: 0782555
Main literary trends in Germany from the turn of the century to the present.
We will read shorter works by Franz Kafka, Thomas Mann, and Robert Musil. The different themes of conflict in these works will find a historical ‘reality test’ in three novels: Erich Maria Remarque, All Quiet on the Western Front, Uli Bechtel, The Tumult, and Heinrich Boll, Billard at Half Past Nine. These novels deal with war, tyranny, and reconstruction as experienced in Germany between 1914 and 1930. Exclusion: (GER86), GER236
Prerequisites: (GER819, and GER820 for students studying in the original) Session: Winter Day
C. V. Fommer
Not offered 1995/96

HUMB985 The Nineteenth Century Russian Novel, 1850-1900
Telephone ID #: 0782586
The image of the nihilist in nineteenth-century Russian culture and the height of its literary achievement. The course will focus on the conflict between Humanists and nihilists in Russian culture set into the wider context of European literature and the rise of the human, social, and artistic vision behind the major literary works of Pushkin, Gogol, Lermontov, Turgenev, Dostoevsky, Leo Tolstoy, and Anton Chekhov. Exclusion: (RUS811, (LIT807), (SLA807)
Prerequisite: One course in literature. Session: Winter Day
C. V. Fommer

HUMC105 Humanities Seminar
Telephone ID #: 0783153
A special half-course equivalent seminar course, taken normally after the completion of ten full-course equivalent courses. Each member of the seminar undertakes an individual project and gives a report on it.

Topics for the seminars should be chosen in consultation with the Coordinator. Students should build upon work taken in other courses, and should attempt to relate material from two or more disciplines.
Exclusion: HUMB15 (HUMB10)
Prerequisite: Any ten full-course equivalents in the programme.
Session: Winter Day
Co-ordinator: W. C. Graham
Offered 1995/96

HUMB111 Arts Seminar
Telephone ID #: 0783114
A seminar/performance course combining at least two of: Fine Art Studio, Fine Art History, Drama, Creative Writing and Music.
Students will bring a proposal for a project to the supervisor early in the fall term and develop their proposals through the term. They will present their performances/performances in the spring term. The form of presentation will depend upon the development of the project and the disciplines involved.
Exclusion: At least ten full-course equivalents in the Arts Programme.
Session: Winter Day
Co-ordinator: J. Mayo
Offered 1995/96 and 1996/97

HUMB11F

HUMB21S Supervised Readings
Independent study of an advanced and intensive kind, under the direction of a faculty member. The material studied should bear some significant relation to the student’s general work, and should differ significantly in content and focus from topics offered in other courses.
Students are advised that they must obtain approval for the supervising instructor before registering for these courses. The courses should be taken with the Supervisor of the Humanities Programme a statement of objectives and proposed content for the courses; this should be done by 15 April for A and B courses and by 1 December for C courses. If the proposal is approved, two faculty members from relevant disciplines will supervise and evaluate the work.
Exclusion: (HUMB91, HUMB93)
Prerequisite: Three B-level full-course equivalents in the Division of Humanities. Session: Winter Day
Offered 1995/96 and 1996/97

HUMB850/859Y Individual Study Year
An opportunity for advanced students to spend a year following their own studies under the supervision of faculty drawn from the various disciplines within the Division of Humanities. Students will be expected to produce major projects or projects in their chosen areas, and will take an oral examination at the end of the year before appropriate faculty. Those interested in enrolling should contact the Supervisor of Studies.
Exclusion: (HUMB95, C39)
Prerequisite: Permission of the Supervisor of Studies.
Session: Winter Day
Offered 1995/96 and 1996/97

DRAMA01 Dramatic Literature and Political Revolution
Telephone ID #: 0402076
A study of plays which dealt with the various aspects of political revolution.
Political revolution is perhaps the most striking feature of modern political change. From about 1800, dramatists have been fascinated with the political, social, and psychological issues raised by the apparent either/or of revolutionary change. Terms will be drawn from European and North American literature. All texts will be read in English.
Exclusion: (HUMB616, HUMB509, LIT815)
Prerequisites: One full-course equivalent in literature.
Session: Winter Day
Co-ordinator: N. Oldendorf

ITAC71S Italian Cinema
Telephone ID #: 06637153
A survey of the development of Italian cinema from World War II to the present.
Films by Rossellini, Antonioni, Fellini, Pasolini, and other post-war Italian directors will be shown during the course, which will meet four hours per week. Besides participating in the discussions, students will be required to write a brief review of each film, and one end-of-term essay for which a cinematic project (a short film plus a scenario) may be substituted. This course is open only to students with no previous knowledge of Italian language and culture and to in-English. Students will be expected to do their written work in English.
Exclusion: (HUMB513, HUMB510)
Session: Winter Day
K. Gates
Not offered 1995/96

Courses Not Offered in 1994/95

HUMA01Y Prologue
HUMA02Y Celtic Mythology and Medieval Celtic Civilization
HUMA05Y The Irish
HUMA07Y Roman Culture
HUMA19F Beyond Consciousness
HUMA21F Science Fiction
HUMA22F Dance in a Multicultural Society
HUMA25F Faust in Nineteenth and Middle Earth
HUMA45FS The Spanish Civil War: Fact to Fiction
Prerequisites: ENGL11 or
International Development Studies

Major Programmes in International Development Studies

Supervisor: TBA

The dimensions and diversity of problems facing developing countries have involved many academic disciplines. At the Scarborough Campus, the Major Programmes in Development Studies is based primarily on existing courses taught by faculty members actively involved in development problems. In organizing the Programme, an attempt has been made to provide a core of fundamental knowledge which can be applied in Third World countries. Students may then select additional courses from a broad range of relevant courses at the Scarborough and St. George Campuses which will allow more specialized thematic or regional concentration. Students enrolled in this Programme are strongly advised to consult with a major programme in a related discipline. The Programme is designed both for students with a broad general interest in developing countries or those with some interest in pursuing a career in development studies. Students in the latter category should seriously consider the more intensive Co-operative Programme in International Development Studies.

Students must complete:
- **IES107Y**: Political Economy of International Development (POL107Y)
- **POL211Y** or **IES207Y**: Politics of the Third World may be substituted for IES107Y. Students hoping to transfer to the Co-op Programme in International Development Studies should take IES107Y as POL107Y will not be accepted as an appropriate substitute.
- **IES202Y**: Development Studies: Physical and Ecological Resource Management

They must also complete at least three full-course equivalents from the following (Courses marked with an asterisk (*) have prerequisites):

- **ANT140Y**: Social and Cultural Anthropology
- **ANT161F**: Complex Societies: Anthropological Perspectives on Development
- **BIO145F**: Environmental Biology
- **ECO156F**: Economic Development
- **ECO257S**: Development Policy
- **IES306F**: Introduction to Soil Science
- **IESC115**: Soil Management in Tropical Regions
- **POL104**: Political Sociology in the Middle East
- **POLC95**: Politics and Society in Latin America
- **SOCI217F**: Social Change in the Third World

An additional 3 and one-half full-course equivalents should be selected from the following:

- **ANT209Y**: Ecological Anthropology
- **ANT210F**: The Americas: An Anthropological Perspective
- **ANT205F**: African Cultures and Environment
- **ANT217F**: Comparative Slavery
- **ANT226F**: Origins of the Islamic World and the Black Atlantic
- **ANT346F**: African Cultures and Societies II: Case Studies in Anthropology of Women
- **ANT311Y**: Economic Anthropology
- **ANT322F**: Political Anthropology
- **ANT335F**: Quantitative Methods in Anthropology
- **ANT360F**: Fieldwork in Social and Cultural Anthropology
- **ANT361F**: Medical Anthropology: Illness and Healing in Cultural Perspective
- **ANT362S**: Medical Anthropology: Biological and Demographic Perspective
- **ANT363F**: African Cultures and Societies III: Anthropology of Women

Italian

**Italian 133**

- **ITAL133F**: Brazilian Portuguese
- **ITAL133Y**: Italian Language
- **ITAL133Y**: Italian Literature

**Italian 133**

Discipline Representative: A. Parenteau (827-7144)

Scarborough College offers a range of courses in the language and literature of Italy from the Middle Ages to the present. For students who have no previous training in the language, the study of Italian begins at the elementary level with ITA100A3. ITA200 (or ITA101) is pre- or corequisite to all other Italian courses taught in Italian. Students with other types of language preparation should consult the Discipline Representative or consider choosing their course of study. All courses, attention is given to form, style as well as written aspects of the language.

Courses offered by other disciplines may prove directly variable to students in Italian as it adjusts to their plan of study or
ITALIAN

as an enrichment of their total programme. Similarly, certain aspects of Italian literature complement other areas of interest, such as Fine Arts, Music, English, French, Spanish, Humanities, and Management and Economics.

Students enrolled in Italian, especially those who may later wish to enroll in the Faculty of Education or to continue their studies at the graduate level, are strongly urged to take their courses at the earliest possible date in order to establish a comprehensive and coherent plan of study. For example, some may wish to take advantage of the Supervised Reading courses (ITAA89) or courses offered through the Italian Department on other campuses in order to achieve the necessary breadth required for graduate programs.

Students are not allowed to take any A level courses in Italian language while taking or after completing any B level course in Italian language.

Students may be excluded from any course if their knowledge of Italian is deemed by the instructor to exceed the level of the language of that course.

Students in the Major Programmes may satisfy some of their Programme requirements through a Study Elsewhere Programme, especially that operated by the University of Toronto at Santa Fe.

Major Programme in Italian

Supervisor: D. McAlister (977-716)

The Programme combines the study of language and some aspects of Italian culture and civilization. It has three streams, according to the student’s background.

Students should complete seven full-course equivalents, as follows:

Option A - the streams which are not formal streams in Italian:

1. ITAA89Y Introductory Italian and Language Practice
2. ITAA90Y Conversation II
3. ITAA90S Intermediate Italian
4. ITAA90F Intermediate Italian
5. ITAC27F Intro to Modern and Contemporary Literature
6. ITAC27F Survey of Italian Literature from the Middle Ages to the Renaissance
7. One full-course equivalent from among the following:
   ITIA29F, ITIA93Y, ITAA90S

Option B (for students with ITAA11Y, OAC or Grade 13 Italian):

1. ITAA6Y Intermediate Italian I
2. ITAA89Y Intermediate Italian II
3. ITAC27F Language Practice
4. ITAC27F Introduction to Modern and Contemporary Italian Literature
5. ITAC27F Survey of Italian Literature from the Middle Ages to the Renaissance
6. Three further full-course ITA equivalents at the B, C, and D levels, only for students who have completed ITAA11Y, and only one for students who have completed ITAA11Y or ITAA90S
7. ITAC27F General Linguistics

Language requirements will be waived by the Supervisor for students judged to have advanced knowledge of Italian. Appropriate courses from the Discipline’s offerings will be substituted. Students are strongly advised to discuss their Programme as soon as possible with the Supervisor.

Minor Programme in Italian

Supervisor: D. McAlister (977-716)

Four full-course equivalents, as follows:

1. One and one-half full-course equivalents in elementary Italian language (ITAA91Y and ITA92F, or ITAA11Y and ITA11S)
2. One full-course equivalent in intermediate Italian language (ITAA89Y or ITAA89I)
3. ITAA90S Modern Italian
4. One full-course ITA equivalent at the C level

ITALIAN Intermediate Introductory I

Supervisor: D. McAlister (977-716)

An elementary course for students with no knowledge of Italian which must be taken together with ITIA29F. Elements of Italian grammar, with attention given to oral practice. Short contemporary texts will be studied.

Our aim is to provide a relaxed friendly atmosphere in which to study basic standard Italian grammar and syntax. Importance is given to exercises which develop the practical skills of understanding and speaking needed for the comprehensive course ITA21F. The basic Italian textbook is supplemented by dialogues made up by the students and easy readings commencing as early as possible in the textbook. A tape programme is also provided. Students are expected to participate in classroom exercises, based in written assignments completed outside the classroom, and write monthly tests.

Exclusive: OAC Italian, Grade 13 Italian, ITAA89, ITAA10, ITA101.

Corequisite: ITAA89. It is also recommended that students enrolled in ITAA89 and ITA102 take ITAA90 concurrently with them in the Spring term.

Session: Winter Day D. McAlister
Offered every year

ITALIAN Introductory Italian Language Practice

Telephone ID #: 086-2033
Practical application of the language structures introduced in ITAA89.

As with the corequisite A01, one term is to provide a relaxed friendly atmosphere in which to learn basic standard Italian. Class time is devoted entirely to conversing in Italian. At the beginning students are given set dialogues which they practice with one another. As they gain confidence and knowledge of the language they are encouraged to prepare their own dialogues and conversations based on situations and topics of interest. If is sufficient need there will be a special section of this course for idiophones.

Exclusions: OAC Italian, Grade 13 Italian, ITA110, ITA101.

Corequisite: ITAA89
Session: Winter Day D. McAlister
Offered every year

ITALIAN Conversation II

Telephone ID #: 086-1053
Practical application of the language structures introduced in ITAA89.

Students are encouraged to speak Italian in a relaxed informal classroom atmosphere. Conversations are based on situations that the students are likely to encounter in Italy as well as on readings presented at home from literary works, newspapers, and magazines. Among the topics chosen are geography, history, politics, economics, and cultural life of contemporary Italy.

Exclusive: ITAA89.
Corequisite: ITAA89
Session: Winter Day D. McAlister
Offered every year

ITALIAN Intermediate Conversation

Telephone ID #: 086-2053
An advanced course in conversation for those students with sufficient knowledge of Italian.

This course offers the opportunity to improve oral and aural skills in Italian. Attention will be given to idioms and special constructions in readings or in discussions focusing on Italian culture and civilization. Students will be expected to prepare topics of common interest for discussion in class by doing background reading on selected topics and by preparing the appropriate vocabulary of those topics. At least one oral report and two skills tests (one prepared and one impromptu) will be required of each student.

Corequisite: ITAA89
Session: Winter Day D. McAlister

ITALIAN Intermediate Modern Italy

Telephone ID #: 086-2053
An introduction to the events and ideas which have contributed to the making of modern Italy.

This course aims to help the student understand the complex social and cultural milieux in which life is conducted in present-day Italy. Readings from a wide variety of texts will form the basis for the three weekly hours of discussion of topics
the Discipline Representative: Exclusion: ITA425, ITA555, ITA580
Prerequisite: One full-course equivalent in Italian literature and permission of the instructor: Session: Winter Day Staff Offered every year

Courses Not Offered in 1994-95

ITA411Y Elementary Italian Exclusion: ITA411Y, ITA412Y, ITA413Y; ITA401Y, ITA402Y, ITA403Y
Prerequisite: ITA411Y Corequisite: It is strongly recommended that students enrolled in this course take ITA401 concurrently with it.

ITA412Y Dante's Divine Comedy Exclusions: ITA431Y, ITA432Y Prerequisite: ITA411Y
ITA420F Practical Translation Exclusions: ITA405Y, ITA406Y Prerequisite: ITA401Y or ITA411Y

ITA425Y The Nineteenth-Century Italian Novel in Translation Exclusion: ITA422Y, ITA423Y, ITA424Y Prerequisite: ITA401Y or ITA411Y

ITA46Y Italian Cinema Exclusions: HIST411, HIST412, ITA460Y Prerequisite: For those taking the course as part of a Programme in Italian, ITA401Y or ITA411Y; for others, none.

Language Studies (B.A.)

The following Programmes are offered in Language:

Specialist Programme in Modern Languages

Supervisor: U. Sherman

The Modern Languages Specialist Programme enables a student to gain a high degree of fluency in two languages, or in one language together with a concentration in Linguistics. In the case of every combination, there is a common core for the Programmes consisting of core course in Linguistics, and a choice from a set of courses which relate languages to broader social and historical or cultural areas.

There are ten possible combinations as follows: French and German, French and Italian, French and Spanish, German and Italian, German and Spanish, Italian and Spanish, French and Linguistics, German and Linguistics, Italian and Linguistics, Spanish and Linguistics.

Students in these Programmes may satisfy some of their Programme requirements through a Study Abroad Programme operated by the University of Toronto at (French) Aix-en-Provence, (German) Berlin, (Italian) Sienna, and (Spanish) Granada.

Students of German may also complete for placement in the Summer Work Programme operated by the Federal Republic of Germany.

For every combination, students must satisfy the following requirements:

1. The courses listed under the Major Programme in one of: French, German, Italian, Linguistics, Spanish

2. LING410 Y General Linguistics, except where already included in the Major Programme

3. OMC French or Grade 13 French (for major in French only)

4. One full-course equivalent from the following, the choice to be approved by the Supervisor, for every combination other than French/Spanish:

   HIST411, HIST412, HUMAN410, PROLOGUE

Specialist Programmes in Management and Administration

Registration in this Programme is limited. Please refer to the Management section of the Calendar for details.

The Management and Economics Humanities Division have co-operated to develop joint programmes in Management and Economics, both in Italian and Spanish.

The Management requirement for any of these programmes is the core course and the requirements for the Specialist in Management.

Language requirements consist of five full-course equivalents in one language, made up of A, B, C Language, B, Business Language, C, Civilization, as follows:
French
A. FREA10Y, FREA11Y, one full-course equivalent from FREA10Y, FREA11Y, FREA12Y, FREA13Y
B. At least one full-course equivalent from FREA14Y, FREA15Y
C. At least one course from each of FREA22Y, FREA23Y, FREA27Y, FREA28Y
D. An additional full-course equivalent in French
German
A. GERAO0Y, GERAO10Y, GEREO0Y, GEREO10Y
B. GEREO11Y
C. GEREO12Y
Italian
A. ITAA01Y and ITAA02Y or ITAA11Y, and ITAA03Y, ITAA01Y or ITAA11Y, ITAA03Y, ITAA05Y
B. One full-course equivalent from ITAAC04Y, ITAAC05Y
C. One full-course equivalent from ITAA20Y, ITAAC71Y
Spanish
A. SPAA01Y, SPAA02Y, SPAA03Y, SPAA04Y, SPAA05Y
B. SPAC02Y
C. SPAS15Y or HUMC14Y
* Students taking HUMC14 are not required to take SPAA04Y
Major Programmes
Major Programme in French Language
Seven full-course equivalents, including:
1. FREA01Y, FREA02Y, one full-course equivalent from the following
   FREA03YS - FREA09S
2. Two full-course equivalents from the following:
   FREA04Y, FREA05Y, FREA06Y, FREA07Y, FREA08Y, FREA09Y, FREA10YS, FREA11YS
3. Three other full-course equivalents in French, one of which must be chosen in the areas of French, Francophone or French Canadian Literature, and one in French, Francophone or French Canadian Civilization.
4. Students may include in their programme a maximum of one supervised reading course.
The following may not count toward a Major Programme in French Language:
FREA10YS
Note: Students intending to pursue their studies in French on the graduate level are advised that this Programme does not qualify them for admission to the Graduate Department of French at this University.
Major Programme in German Language
Seven full-course equivalents as follows:
GERAO0Y Introductory German
GERAO10Y Intermediate German
GEREEO0Y Intermediate German
GEREO11Y German Language Practice II
GEREO12Y History of the German Language
GEREO13YS Language in a Literary Context
GEREO14Y German Language Practice III
GEREO15Y Advanced German
LINA10Y General Linguistics
Major Programme in Italian
Seven full-course equivalents, as follows:
Option A (for students who have no prior knowledge of Italian or its dialects):
1. ITAA01Y Introductory Italian
2. ITAA02Y Language Practice
3. ITAA03Y Conversation I
4. ITAA04Y Intermediate Italian I
5. ITAAC07Y Language Practice
6. ITAAC11Y Introduction to Modern and Contemporary Literature
7. ITAAC12YS Survey of Italian Literature from the Middle Ages to the Renaissance
8. LINA10Y General Linguistics
Option B (for students with OAC or Grade 11 Italian):
1. ITAA01Y Intermediate Italian I
2. ITAA02YS Intermediate Italian II
3. ITAAC07YS Language Practice
4. ITAAC11YS Introduction to Modern and Contemporary Literature
5. ITAAC12YS Survey of Italian Literature from the Middle Ages to the Renaissance
6. Three full-course equivalents at the B- and C-levels
7. LINA10Y General Linguistics
Major Programme in Spanish Language
Seven full-course equivalents as follows:
SPAA01Y Introductory Spanish
SPAA02H Intermediate Spanish Language Practice
SPAA03Y Intermediate Spanish Language Practice
SPAA04F Phonetics
SPAA01S History of the Spanish Language
SPAA05Y Advanced Spanish
SPAA14Y The Civilization of Spain I
SPAA15YS The Civilization of Spain II
HUMC14Y Topics in Latin American Culture and Literature
SPAC21F Literary Language
SPAC22F History of the Spanish Language I
(Note: Students who have OAC Spanish or Grade 13 Spanish must complete, in place of SPAA01 and SPAA02, one and one-half full-course equivalents from SPAA or HUM courses which concentrate on Spanish language, culture, or literature, to be arranged with the Supervisor.)
Language requirements for any of the above Programmes will be waived by the Supervisor for students judged to have advanced knowledge of the language.
Equivalent courses will be substituted in consultation with the Supervisor.
Minor Programmes
Five options are proposed. For students who are not interested in the degree of concentration provided by the Major Programme these options offer coherent groupings of courses whose focus and linguistic emphasis vary with the different levels of students' language preparation.
Minor Programme in French
Students should complete four full-course equivalents:
1. FREA01Y
2. FREA02Y
3. Six further FR courses, at least one of which must be at the C-level, and excluding FREA02, FREA09Y
Minor Programme in German Language
Students should complete four full-course equivalents:
1. GERAO10Y and GERAO11Y
2. GEREO11Y
3. GEREO12Y
4. GEREO13YS
Minor Programme in Modern Greek
Students must complete four full-course equivalents as follows:
1. CLA101Y or CLA201Y
2. GRK111F and GRK114S
3. Two other full-course equivalents from GRK212, GRK232, GRK242, GRK252, GRK301, GRK302
Minor Programme in Italian
Four full-course equivalents as follows:
1. One and one-half full-course equivalents in any major Italian language (ITALA1Y and ITAL21Y or ITAL01Y and ITAL03S)
2. One full-course equivalent in intermediate Italian language (ITAL01Y or ITAL02Y)
3. ITAL03YS Modern Italy
4. One full-course IT equivalent at the C-level
Minor Programme in Spanish
1. Spanish Language
   SPAA03Y
   SPAA01S
   SPAA03YS
   SPAA01YS
   (or another half-course in SPA in consultation with supervisor)
   SPAA03Y
2. Language and Hispanic Culture
   Students with OAC or Grade 13 Spanish, or SPAA01YS and SPAA03YS
   SPAA03YS
   SPAA01YS
   SPAA03YS
   SPAA01YS
   (or another half-course in SPA in consultation with supervisor)
   HUMC14YS
3. Language and Hispanic Culture: Native Speakers
   SPAA03YS
   SPAA01YS
   SPAA03YS
   SPAA01YS
   SPAA03YS
   SPAA01YS
   SPAA03YS
   SPAA01YS
   (or another half-course in SPA in consultation with supervisor)
   HUMC14YS
   Students may also refer to the following Programmes:
Classical Studies
The following courses are offered in Languages in 1994/5 (For full course descriptions, see the course listings in the University Calendar.)
FREA01Y Language Practice I
FREB01YS Practical Translation
FREB02Y Language Practice II
FREB03Y Commercial French
FREB04Y Theoretical and Practical Phonetics
FREB011Y French Language Learning in the School System
FRECO01F Advanced Written French I
FRECO02YS Advanced Written French II
FREO01YS Oral Communication for General Purposes
FREO01YS Oral Communication for Specific Purposes
**140 Linguistics**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>GER190Y</td>
<td>Introductory German</td>
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<tr>
<td>GER290Y</td>
<td>Language Practice I</td>
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<tr>
<td>GER390Y</td>
<td>Language Practice II</td>
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<tr>
<td>GER391FR</td>
<td>Language in the Literary Context</td>
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<tr>
<td>GER295FR</td>
<td>Language Practice III</td>
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<tr>
<td>GER260Y</td>
<td>Advanced German</td>
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<tr>
<td>GER213F</td>
<td>Intermediate Modern Greek</td>
</tr>
<tr>
<td>GER214S</td>
<td>Advanced Modern Greek</td>
</tr>
<tr>
<td>ITA10Y</td>
<td>Introductory Italian</td>
</tr>
<tr>
<td>ITA102F</td>
<td>Introductory Italian Language Practice, Section I</td>
</tr>
<tr>
<td>ITA103F</td>
<td>Language Practice, Section 2</td>
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<tr>
<td>ITA104Y</td>
<td>Conversations II</td>
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<td>ITA401Y</td>
<td>Intermediate Italian I</td>
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<td>ITA405S</td>
<td>Intermediate Conversation</td>
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<tr>
<td>ITA402F</td>
<td>Modern Italy</td>
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<tr>
<td>ITA403Y</td>
<td>Language Practice</td>
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<tr>
<td>ITA406F</td>
<td>Advanced Composition</td>
</tr>
<tr>
<td>ITA222F</td>
<td>Introduction to Modern and Contemporary Literature</td>
</tr>
<tr>
<td>ITA212S</td>
<td>Survey of Italian Literature from the Middle Ages to the Renaissance</td>
</tr>
</tbody>
</table>

**Linguistics (B.A.)**

**Discipline Representative:** D.M. James (287-7170)

Linguistics deals with all possible aspects of language. It has its own theory about the basic structure of language in each core area as phonetics (what human sounds are possible speech sounds; how are they made and perceived?), phonology (how do languages choose sounds from the inventory of possible speech sounds to make the sound system of any given language?), morphology (how do sounds combine to form words?), syntax (how do we build sentences?), and semantics (the study of meaning in all the possible forms). Linguistics studies how language changes over time and what forces cause such change.

Linguists have interests in common with psychologists (psycholinguistics - what's the relationship between language and mind? How does a child learn its language?; or a second or subsequent language? What can language tell us about how the mind works? What's wrong when language goes wrong?), sociologists (sociolinguistics - what's the relationship between language and society? How does your use of language tell people about your social roles and status?), and anthropologists (ethnolinguistics - what's the relationship between language and culture? What does your use of language tell others about your cultural values?); computer scientists (much of computer language "syntax" is based on that of human language); and students/teachers of languages (a teacher, in particular, has to be keenly aware of the structure of the language she is teaching). Ultimately, a strong awareness of language is important, even in seemingly unrelated areas, such as law, where a knowledge of syntax and semantics is of prime importance.

**Specialist Programme in Linguistics**

**Supervisor:** D.M. James (287-7170)

The Specialist Programme in Linguistics: Thirteen full-course equivalents, as follows:

- 1 LNA61Y General Linguistics or LNA615Y Practical Language Study
- 2 LNA610Y Practical Language Analysis and LNB90F Phonetics
- 3 LNC02S Phonology and LNC11Y Syntax
- 4 Three further C- or D-level full-course equivalents in LIN and/or PLI, of which at least one must be at the C- or D-level, or
- 5 Three further full-course equivalents in LIN and/or PLI.

**Major Programme in Linguistics**

**Supervisor:** D.M. James (287-7170)

The Major Programme in Linguistics: Seven full-course equivalents, as follows:

- 1 LNA01Y General Linguistics or LNA03Y Practical Language Study
- 2 LNB01Y Practical Language Analysis
- 3 LNB90F Phonetics and LIN02S Phonology or LNC11Y Syntax
- 4 Four further full-course equivalents in LIN and/or PLI, of which at least one must be at the C- or D-level, or
- 5 Four further full-course equivalents in LIN and/or PLI and LIN03Y Full-course equivalent in a language other than English.

**Minor Programme in Linguistics**

**Supervisor:** D.M. James (287-7170)

The Minor Programme in Linguistics: Four full-course equivalents, as follows:

- 1 LIN61Y General Linguistics
- 2 LNB91Y Practical Language Analysis
- 3 Two further full-course equivalents in either LIN or PLI, of which at least one must be at the C- or D-level.

**LIN40Y General Linguistics: The Title of the Language**

**Course Code:** T1801Y

An introduction to the various methods and theories of language analysis, and to the relationships between language and mind, language and culture, and language and society.

**Topics:**
- Sound patterns in languages, word formation; sentence structure, meaning, different varieties of language and social attitudes towards them; how languages change over time, how they learn language, language and the brain.

**Courses offered by:**
- D. Woods, R.L. Hinckley

**Offered every year:**

**Course Code** | **Course Title** |
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>FRE295Y</td>
<td>Introduction to French Language Practice</td>
</tr>
<tr>
<td>FRE211FR</td>
<td>Teaching French as a Second Language</td>
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<tr>
<td>FRE218FR</td>
<td>Translation for Business and Professional Needs</td>
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<tr>
<td>FRE295F</td>
<td>The French Language in Canada</td>
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<tr>
<td>GER807F</td>
<td>History of German Language</td>
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<tr>
<td>GER311S</td>
<td>German in Commerce and Management</td>
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<tr>
<td>ITA111Y</td>
<td>Elementary Italian</td>
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<td>ITA112Y</td>
<td>Intermediate II</td>
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<tr>
<td>ITA121Y</td>
<td>Dante's Divine Comedy</td>
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<tr>
<td>ITA125F</td>
<td>Practical Translation</td>
</tr>
<tr>
<td>ITA145F</td>
<td>The Nineteenth Century - Italian Novel in Transition</td>
</tr>
<tr>
<td>SPA225S</td>
<td>Business Spanish</td>
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<tr>
<td>SPA230S</td>
<td>History of the Spanish Language</td>
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<td>SPA232S</td>
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<td>SPA241Y</td>
<td>Golden Age of Spanish Drama</td>
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<td>SPA212S</td>
<td>History of the Spanish Language</td>
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<td>SPA391Y</td>
<td>Syntax</td>
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<tr>
<td>GER048Y</td>
<td>Introduction to French Linguistics</td>
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<tr>
<td>FRE409Y</td>
<td>Theoretical and Practical Phonetics</td>
</tr>
<tr>
<td>FRE402F</td>
<td>History of the French Language</td>
</tr>
<tr>
<td>FRE403S</td>
<td>The French Language in Canada</td>
</tr>
<tr>
<td>GER202FR</td>
<td>History of the German Language</td>
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<tr>
<td>PHI010F</td>
<td>Philosophy of Language</td>
</tr>
<tr>
<td>SPA194SF**</td>
<td>History of the Spanish Language I</td>
</tr>
</tbody>
</table>

**Students should check departmental course offerings for prerequisites.**

- 7 Two full-course equivalents in a language which is not the student's native language.
- 8 One full-course equivalent in a third language or equivalent demonstrated ability.

Please note: Neither LIN405Y nor LIN500F can be counted toward the Specialist Programme in Linguistics.
LING101Y Practical Language Analysis
Telephone ID #: 20030513
Analysis of sound, word and sentence structure in a broad variety of languages of the world. Starting with the techniques of linguistic analysis studied in LINA01 or LINA05, students will analyze phonological, morphological, and syntactic data from a representative variety of language types. Problem sets will be distributed in class. Lecturers will focus on how to organize data for analysis, how to draw upon general principles of language structure to identify possible solutions, and how to decide which of several competing solutions is best. Implications for different schools of linguistic theory will also be discussed.
Term: (LING01, LING14)
Prerequisites: LINA01 (LINA05)
Session: Winter Day
Offered every year

LING205F Sociolinguistics: The Study of Language and Society
Telephone ID #: 20030213
The effect of social factors on the form and use of language and the impact which linguistic variation can have on society. Topics will include: speech varieties within a language, e.g., regional and social dialects, speech styles and registers, the role of speech varieties as symbols of group affiliation; multilingualism within a community or nation; the diverse social factors resulting in the spread or death of languages, and the development of new languages such as pidgins and creoles; and the ways in which the social situation can affect speakers' use of language and choice of linguistic forms.
Exclusion: LING303, LINC515, LINC007
Prerequisites: LINA01 (LINA05), or LINA04 with permission of instructor.
D. M. James
Session: Winter Day
Not offered 1995/96
Offered 1996/97

LING206F Phonetics: The Study of Speech Sound Systems
Telephone ID #: 20030903
The physiological and acoustic bases of speech. An examination of the means by which speech sounds are produced, and of the physical properties of these sounds. Emphasis will be placed on such practical considerations as phonetic transcriptions. We will discuss material from the prescribed readings and problems which seem to be solvable.
Exclusions: LING401Y
Prerequisite: LINA01 (LINA05)
J. D. Woods
Session: Winter Day
Not offered 1995/96
Offered 1996/97

LING227F Animal Communication and the Nature of Language
Telephone ID #: 20030213
An examination of how some animals communicate and what this tells us about how to form a theory of language.
Topics include: non-human communication; the relationship of human language to animal communication; non-linguistic communication by humans.
Lectures, discussion, and films.
Prerequisites: One course in LIN, or ANT, or BSH, or PSY, or SOC.
Session: Winter Day
J. D. Woods
Offered 1995/96
Offered 1996/97

LING205S Phonology: Sound Systems of Language
Telephone ID #: 20030213
Theoretical issues of phonology. We will attempt to cover both Generative theory and several aspects of Non-linear theory (Underspecification, as well as the theories of Lexical, Metrical, and Autosemantic Phonology).
This course will assume familiarity with phonological problem-solving methods; we will read, discuss, and evaluate books in the recent theories outlined above.
Exclusion: LING204F
Prerequisites: LING204Y and LING206F
Session: Winter Day
J. D. Woods
Not offered 1995/96
Offered 1996/97

LING207F Language Change
Telephone ID #: 20030613
Language change and language relationships. Topics such as the following will be included: the ways in which language changes; social motivations for language change; language families; language contact; language universals.
Exclusion: LING206Y (LING206Y)
R. I. Bresnick
Session: Winter Day
Not offered 1995/96
Offered 1996/97

LING225 Language and the Sexes
Telephone ID #: 20030313
Ways in which males and females differ in how they use language, and what languages can tell us about how males and females are viewed by their speakers. The first part of the course addresses such questions as: Who talks more? Interrupts more? Uses more forceful language and gestures? Speaks more "correctly"? Particular attention is paid to the significance of differences in the relative status of male and female. The second part of the course deals with such matters as expressions used to describe human beings and entities of unknown or no sex. The proposition is considered that English and at least some other languages reflect a specifically male perspective on the world.
Limited enrollment: 25
Prerequisites: LING101Y or WST201Y or permission of instructor.
D. M. James
Session: Winter Day
Not offered 1995/96
Offered 1996/97

LING208S Second Language Learning
Telephone ID #: 20030213
Prerequisite: One full-course equivalent in LIN.
D. M. James
Offered 1995/96

LING211Y Syntax: The Study of Sentence Structure
Telephone ID #: 20030213
Prerequisite: LING201Y
Session: Winter Day
Offered 1995/96

LING212F Semantics: The Study of Meaning
Telephone ID #: 20030213
Prerequisite: LINA01
Not offered 1995/96
Offered 1996/97

LING215F Developmental Psycholinguistics
Telephone ID #: 20030213
Prerequisite: One full-course equivalent in LIN and PST201Y
Not offered 1995/96
Offered 1996/97

LING216S Psycholinguistics
Telephone ID #: 20030213
Prerequisite: One full-course equivalent in LIN and PST201Y
Not offered 1995/96
Offered 1996/97

LING221Y Investigation of a Language
Telephone ID #: 20024113
Linguistic theory put to work through analysis of a language which is not familiar to the student's major. The language will vary from year to year, depending on who is involved in the course.

The aim of this course is to allow advanced students of Linguistics to apply their theoretical knowledge of the field to the practical problem of creating a grammar of a language. Normally, we work on a non-Indo-European language, with the help of a native speaker of that language. The course requires a great deal of participation and teamwork from all its members. We aim to produce a grammar of the language by the end of the term.
Exclusion: LING225Y
Prerequisite: LING201Y
Session: Winter Day
J. D. Woods
Not offered 1995/96
Offered 1996/97

Courses Not Offered in 1994/95

LING205F
LING211Y
LING212F
LING216S
LING215F
LING221Y
LING225
LING207F
LING208S
LING211Y
Strategic Planning in Management

Specialist Programme in Management

Management in its broadest sense involves the management of people, resources, and processes to achieve organisational goals. This programme is designed to provide students with a comprehensive understanding of management principles and practices. It aims to equip students with the skills and knowledge necessary for effective management at all levels within an organisation. The programme covers key areas such as strategic planning, leadership, decision-making, and organisational behaviour. It is suitable for students interested in pursuing careers in management or related fields.

Eligibility:
- Possession of a Bachelor's degree from a recognised institution in any discipline.
- Minimum 50% aggregate marks in the Bachelor's degree.
- Evidence of managerial experience is an added advantage.

Curriculum:
The curriculum is designed to provide a balanced approach to theoretical and practical knowledge. It includes core courses such as Organisational Behaviour, Management Theory, Strategic Management, and Entrepreneurship. Students will also have the opportunity to select electives from a range of specialisations including Human Resource Management, Marketing, and International Business.

Career Prospects:
The programme prepares students for a variety of roles in the private and public sectors. Graduates can pursue careers in managerial positions in various organisations, such as corporate executives, department heads, or project managers. Other career paths include consulting, entrepreneurship, and academic roles. The programme also provides a strong foundation for further studies in management.

Contact Information:

For more information or to apply, please contact the admissions office at:

Institution Name
Address
City, State, Zip Code
Phone: +1-1234-567890
Email: admissions@institution.edu
Website: www.institution.edu

This programme is open to students from all countries and is delivered through a combination of online and on-campus modules. The application process is competitive, and applicants are encouraged to submit their applications early to ensure consideration.
made up of A. Basic Language, B. Business Language and C. Civilization, as follows:

**FRENCH**
A. FREA10, FREB10, one full-course equivalent from FREC10, PREC10, PREC24, FREC25
B. at least one full-course equivalent from FREB18, FREC18
C. at least one half-course from FREB22, FREB23, FREB28
D. An additional half course in FRE

**GERMAN**
A. GERA09, GERA10, GERA19, GERA20, GERC10
B. GERC11
C. GERC01

**ITALIAN**
A. ITA001 and ITA002 or ITA111 and ITA003, ITA001 or ITA011, ITA005, ITA009
B. one half course from ITA004, ITA005
C. one half course from ITA020, ITA071

**SPANSISH**
A. SPAA01, SPAA02, SPAA09, SPAA04, SPAC01
B. SPAC02
C. SPAS03 or HUMC14
* students taking HUMC14 are not required to take SPANS04

Students must take at least 10 FCEs in Management listed at requirements 1-5 of the Management curriculum plus the Language requirements.

**Specialized Programme in Management and Economics**
**Supervisor:** T. Lattarup
This programme is designed to give students a broad exposure to all the functional areas of management as well as a solid grounding in economics. Quantitative topics are treated rigorously by means of calculus. The Programme requires the completion of the following minimum requirements as part of a twenty-course degree:

**NOTE:** A single course may only be used to fulfill one of the following requirements:
1.  MGT202, MGT203, MGT204, MGT205, MGT206, MGT207, MGT208
2.  MGT209, MGT210, MGT211, MGT212, MGT213, MGT214, MGT215, MGT216

Minimum requirements as part of a twenty-course degree:

1.  At least 0.5 FCE of courses emphasizing management skills chosen from MGT208, MGT210, MGT212, MGT214, MGT216
2.  At least 0.5 FCE of courses emphasizing strategic management, chosen from MGT208, MGT210, MGT212, MGT214, MGT216
3.  At least 0.5 FCE of courses emphasizing strategy, chosen from MGT208, MGT210, MGT212, MGT214, MGT216
4.  EC040, EC040, EC040, EC040, EC040, EC040, EC040, EC040
5.  STA002 or STA003
6.  STA002 or STA003
7.  STA002 or STA003
8.  STA002 or STA003
9.  STA002 or STA003
10.  STA002 or STA003
11.  STA002 or STA003

For students taking HUMC14 are not required to take SPANS04

Students must take at least 10 FCEs in Management listed at requirements 1-5 of the Management curriculum plus the Language requirements.

**Specialized Programme in Management and Economics**
**Supervisor:** T. Lattarup
This programme is designed to give students a broad exposure to all the functional areas of management as well as a solid grounding in economics. Quantitative topics are treated rigorously by means of calculus. The Programme requires the completion of the following minimum requirements as part of a twenty-course degree:

**NOTE:** A single course may only be used to fulfill one of the following requirements:
1.  MGT202, MGT203, MGT204, MGT205, MGT206, MGT207, MGT208
2.  MGT209, MGT210, MGT211, MGT212, MGT213, MGT214, MGT215, MGT216

Minimum requirements as part of a twenty-course degree:

1.  At least 0.5 FCE of courses emphasizing management skills chosen from MGT208, MGT210, MGT212, MGT214, MGT216
2.  At least 0.5 FCE of courses emphasizing strategy, chosen from MGT208, MGT210, MGT212, MGT214, MGT216
3.  At least 0.5 FCE of courses emphasizing strategic management, chosen from MGT208, MGT210, MGT212, MGT214, MGT216
4.  EC040, EC040, EC040, EC040, EC040, EC040, EC040, EC040
5.  STA002 or STA003
6.  STA002 or STA003
7.  STA002 or STA003
8.  STA002 or STA003
9.  STA002 or STA003
10.  STA002 or STA003
11.  STA002 or STA003
12.  STA002 or STA003
13.  STA002 or STA003

For students taking HUMC14 are not required to take SPANS04

Students must take at least 10 FCEs in Management listed at requirements 1-5 of the Management curriculum plus the Language requirements.
is to improve students' own personal management competencies in areas such as communication, decision making and problem solving, motivating and leading, and teamwork. Enrolment is limited to students registered in programmes requiring this course.

Exclusion: (MGT225Y) MGT362H
Prerequisite: MGT103Y Session: Winter Day, Winter Evening, Summer Evening J. L. Xu, J. Baum

MGT229F Managing Groups and Organizations
This course introduces students to theoretical and practical aspects of macro-organizational behaviour. Building on concepts and skills from MGT103, management issues at group and organizational levels of analysis are emphasized. Topics covered include group dynamics, organizational culture, innovation and change, human resource management, and organizational structure. Enrolment is limited to students registered in programmes requiring this course.

Exclusion: (MGT225Y) MGT362H
Prerequisite: MGT103Y Session: Winter Day
Not offered: 1994/95

Offered: 1995/96

MGT230Y Intermediate Financial Accounting
Telephone ID: 33530163
An examination of some of the theoretical and practical accounting problems involved in income determination and balance sheet valuation. The course builds extensively on the material in MGT200 and, to a lesser extent, MGT201. Potential students should review thoroughly the basic accounting model, preparation of financial statements and accounting principles prior to the start of the course.

Limited enrolment: 60
Prerequisite: MGT202 and MGT203 or (MGT210)
Corequisite: MGT206 Session: Winter Day, Winter Evening

MGT230YF Principles of Finance Telephone ID: 33530163
Telephone ID for MGT230: 33530133
Telephone ID for MGT230S: 33530153
The objective of this course is to provide students with the theories and skills to make optimal corporate financial decisions. It will cover general approaches for valuing cash flows. Enrolment is limited to students registered in programmes requiring this course. Limited enrolment: 60

Exclusion: MGT230, MGT331Y, MGT333Y
Prerequisites: MGT203 (MGT202), ECOB101 or ECOB11
Session (F): Winter Day, Winter Evening Session (S): Summer Evening

MGT304F Principles of Marketing Telephone ID: 33530433
An introduction to basic concepts and tools of marketing designed to provide students with a conceptual framework for the analysis of marketing problems. The focus is on the nature and scope of marketing in an organizational and societal setting. The subjects include an examination of buyer behaviour, market segmentation and target marketing; the basic elements of the marketing mix-product, price, promotion and channel policies; marketing planning, evaluation and control. Limited enrolment: 60
Exclusion: MGT352H
Prerequisite: MGT203 or (MGT201)
Session: Winter Day, Winter Evening, Summer Evening

MGT408FS Introduction To Marketing Management Telephone ID: 33530553
A pragmatic case and readings oriented 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: 60
Exclusion: MGT351H
Prerequisite: MGT204 Session: Summer Day

MGT408F Intermediate Management Accounting Telephone ID: 33530653
An examination of various cost accumulation and performance evaluation systems and decision-making tools. Topics include job and process costing, flexible budgeting, variance analysis and cost allocations. Limited enrolment: 60
Exclusion: MGT351H
Prerequisite: MGT203 Session: Winter Evening

MGT408S Intermediate Finance Telephone ID: 33530753
This course provides a detailed examination of approaches for dealing with financial decisions faced by the corporation. Included are issues such as capital budgeting, leasing, mergers and acquisitions, and alternative financing methods. Limited enrolment: 60
Exclusion: MGT204, MGT331Y, MGT333Y
Prerequisites: MGT203, ECOB101 or ECOB11
Session (F): Winter Day, Winter Evening Session (S): Summer Evening

MGT410F Management Control Systems Telephone ID: 33530853
The course objective is to develop a thorough understanding of planning and control systems in organizations, with an emphasis on behavioral implications. Case studies will be used to evaluate control structures and processes with some attention to multinational, service and non-profit organizations. Limited enrolment: 60
Prerequisites: MGT203 (MGT201) and MGT208 (MGT217)
Session: Winter Evening

MGT411S Management Information Systems Telephone ID: 33531153
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 management judgment and decision making. Limited enrolment: 60
Prerequisites: MGT203 (MGT201) and MGT208 (MGT217). A CISC course is recommended.
Session: Winter Evening

MGT416F Canadian Income Taxation I Telephone ID: 33531653
This is the first of two courses in Canadian income taxation. It is designed to provide the student with detailed instruction in income taxation as it applies to individuals and small businesses. Current tax laws are applied to practical problems and cases. Topics covered include: employment income, business income and professional income, taxation of liquidation and compensation of tax for individuals. Limited enrolment: 60
Exclusion: MGT315
Prerequisite: Completion of at least two full-course equivalents including MGT202 or (MGT201) and MGT203 Session: Winter Day, Winter Evening, Summer Evening

MGT417F Canadian Income Taxation II Telephone ID: 33531753
This course is designed to give the student an understanding of the more complex issues of federal income taxation, by applying current tax law to practical problems and cases. Topics include: computation of corporate taxes, corporate distributions, corporate reorganizations, partnerships, trusts, and individual and corporate tax planning. Limited enrolment: 60
Exclusion: MGT416
Prerequisite: MGT416 Session: Winter Evening

MGT425 Human Resource Management Telephone ID: 33532553
An introduction to the basic concepts, theories and practices of personnel management. Topics include recruitment, selection, training, development, performance appraisal, compensation and human resources planning. Affirmative action, discrimination and equal pay issues will be examined in relation to human rights legislation. Limited enrolment: 60
Prerequisites: MGT208 (MGT217)
Corequisite: MGT420F Session: Winter Day

Note: Because MGT429F will not be offered in the 1994-95 academic year, this course requirement is waived for students who take this course during the 1994-95 academic year only.

MGT429F Organizational Design Telephone ID: 33532953
This course considers theoretical and design aspects of modern organizational systems. Various theoretical perspectives will be explored that are used to explain the formal and informal structures of organizations. The course will consider public and private sector organizational units and make extensive use of case study material. Limited enrolment: 60
Exclusion: MGT331Y
Prerequisites: MGT208 (MGT217)
Corequisite: MGT420F Session: Winter Day

Note: Because MGT429F will not be offered in the 1994-95 academic year, this course requirement is waived for students who take this course during the 1994-95 academic year only.

MGT429S Comparative Organizational Behaviour Telephone ID: 33533253
This course studies the impact on organizational strategies of different
environments, discussing, among other questions, differences between nations. The course may also deal with societal attitudes in reference to quality of work life. Limited enrollment: 60
Prerequisites: MGT528 (MGT527)
Corequisite: MGT529F
Session: Winter Day

MGT529F The Local Environment of Business
Telephone ID #: 33535063
An intensive examination of those parts of the law that most directly affect the operations of a business.
Limited enrollment: 60
Exclusion: MGT 393H I and II
Prerequisites: Completion of at least ten full-course equivalents including MGT528 or (MGT401)
Session: Winter Day, Summer Evening

MGT529S Management and Organization in Fiction
Telephone ID #: 33533553
Through the analysis of works of fiction 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 enrollment: 60
Prerequisites: MGT528 (MGT527)
Session: Winter Day

MGT529SF Management Communications Telecommunications
Telephone ID #: for MGT529S: 33533563
Telephone ID: for MGT539S: 33533565
This course examines the role of management communications skills in the business world. Topics such as writing, negotiation strategies, time management, creating dynamic presentations, effective persuasion techniques, and other essential executive skills are discussed. Written, verbal, and non-verbal communication is emphasized by the extensive use of classroom demonstrations, case studies, student presentations, and role playing. Limited enrollment: 60
Prerequisites: MGT528 (MGT527), MGT530
Session: Winter Evening

MGT529F Entrepreneurship
Telephone ID #: 33533833
This course focuses on a practical viewpoint, using case methods, 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.
Limited enrollment: 60
Prerequisite: MGT528 (MGT527), MGT530 or (MGT501)
Session: Winter Day

MGT528S Public Management
Telephone ID #: 33534253
The course deals with key public sector management processes (policy-setting, budgeting, human resources, crime management) making extensive use of cases, case studies, and simulations intended to develop the student's management skills.
Limited enrollment: 60
Exclusion: MGT549H
Prerequisites: MGT528 (MGT527), POLAS 50, POL710 or POL710
Corequisite: MGT528F
Session: Winter Day

Note: Because MGT528F will not be offered in the 1994-95 academic year, this course requirement is waived for students who take this course during the 1994-95 academic year only.

MGT544S International Business Management
Telephone ID #: 33534453
This course deals with problems faced by managers of international business, such development of a global business strategy, location of operations, dealing with local cultures in marketing and human resource management, and negotiations with host governments.
Limited enrollment: 60
Exclusion: MGT549H
Prerequisites: MGT528 (MGT527)
Session: Winter Evening

MGT544Y Industrial Relations
Telephone ID #: 33534543
A study of industrial relations in the Canadian setting. Topics include: industrial relations theory and systems; history, philosophy and structure of unions, labour law, and a collective bargaining simulation exercise.
Limited enrollment: 60
Prerequisite: Completion of at least ten full-course equivalents including ECOA02 or (ECON02)
Session: Winter Evening

MGT509S Management Ethics
Telephone ID #: 33535053
This course provides students with a set of skills necessary to deal with the ethical problems contemporary managers face. Increasingly, the marketplace has come to reward - and government regulations have come to demand -- a sophisticated managerial approach to the ethical problems that arise in all areas of business practice. Topics will include ethical issues in international business, finance and banking, accounting, advertising, intellectual property rights, environmental policy, product and worker safety, new technologies, gay equity and affirmative action, whistle blowing, and drug testing for employees.
Limited enrollment: 60
Prerequisite: MGT528F
Session: Winter Day

MGT550S Introduction to Operations Management
Telephone ID #: 33535053
Introduces the student to the design and control problems of systems that transform inputs into output, with emphasis on making major strategic, tactical, and operational decision in the operations function. The course also covers several Management Science approaches used to solve the associated problems.
Enrollment is limited to students registered in programmes requiring this course.
Limited enrollment: 60
Prerequisites: ECOA03, MGT530 (ECOB10)
Session: Winter Day

MGT572F Analysis for Decision-Making
Telephone ID #: 33537437
Introduction to Management Science approaches to dealing with decision-making situations, including discussions of problem definitions, objectives, constraints, model construction and verification, development of solutions, sensitivity analysis and interpretation. Topics include: decision analysis, and mathematical programming, network analysis, dynamic programming and waiting-line models.
Limited enrollment: 60
Exclusion: (MGT472) and (MGT723)
Prerequisites: MATH 12, ECON 104, ECON 109
Session: Winter Day

MGT575S Operations Management: A Mathematical Approach
Telephone ID #: 33537553
Introduction to the broad scope and major strategic, tactical, and operational issues of operations and management science. Topics include: forecasting, long-range capacity planning, location and layout of facilities; aggregate planning; project management, inventory control, and production scheduling.
Limited enrollment: 60
Exclusion: MGT560, MGT574H
Prerequisite: MGT574 or (MGT572) and (MGT471)
Session: Winter Day

MGT580S Market Research
Telephone ID #: 33540753
A decision-oriented course, designed to introduce students to the market research process. Alternative data collection, sampling, analysis, and evaluation procedures are discussed. Exploratory, descriptive and causal research approaches are reviewed. Both theoretical and technical considerations in design and execution of market research are stressed. Interaction involves lectures and class projects including computer analysis.
Limited enrollment: 60
Exclusion: MGT549H
Prerequisites: MGT500, ECOB09 (ECOB11) or (ECOB12)
Session: Winter Day

MGT580S Strategic Marketing Management
Telephone ID #: 33540753
A captive marketing course which integrates conceptual and methodological material both within marketing and between marketing and other disciplines such as finance and organizational behaviour through experience rather than instruction. Students manage "firms" in a competitive simulated market.
Limited enrollment: 60
Exclusion: MGT549H
Prerequisites: MGT500, MGT528 (MGT527)
Session: Winter Day

MGT590S Advanced Operations Management
Telephone ID #: 33540733
This is an advanced course in Management Science and Operations Management. It examines models for designing, evaluating, and delivering services. Topics include: demand, allocation of service resources, capacity planning of service systems, workforce
planning, routing problems, and the
dual models. Telephone ID #: 3546053
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
criteria, with some discussion of audit
premises and the legal and professional
responsibilities of the auditor.
Limited enrolment: 60
Prerequisites: MGT655, MGT656
Session: Winter
MGT658 Investments
Telephone ID #: 3547553
This course studies and reviews major
investment problems, in particular:
investment in stocks and bonds, risk and
return characteristics, efficient markets,
evaluation, and portfolio management.
Limited enrolment: 60
Exclusion: MGT651
Prerequisites: MGT650 or MGT652
Session: Winter Day
MGT658 Supervised Reading Course
This course is intended for upper-level
students whose interests are not covered in
one of the other Management courses
normally offered. The course will only be
offered when a faculty member is available
for supervision and would only be available
to students whose Management performance
has been well above average. Students
interested in this course should consult with the
Supervisor of Studies for Management
well in advance.
Exclusion: MGT650
Prerequisites: Permission of instructor
Session: Summer Day, Summer Evening,
Winter Day, Winter Evening
Courses Not Offered 1994-95
MGT659 Managing Groups and
Organizations
Exclusion: MGT657
Prerequisites: MGT653
Session: Winter
MGT658 Retail Management and
Strategy
Prerequisites: MGT650
Session: Winter
Mathematics
(B.Sc.)
Discipline Representative: J. Schon
(287-7209)
The development of mathematics was
induced by the inherent need to devise and
analyse elements of the physical world as
accurately as possible. Applied mathematics
and statistics are still concerned with the building of models for
use in real-world contexts. Pure
mathematics is concerned with systems of
axioms and the true statements or theorems
which can be deduced from them. While pure
mathematics is not necessarily initially
motivated by practical considerations, there
are numerous examples where the solutions
to problems in other branches of science
have been based upon previously developed
pure mathematical theory. The wide
applicability of both the techniques of the
subject and the method of reasoning
employed suggests that most students could
profit by taking some courses in
mathematics.
Please refer to the Physical Sciences section
of the Calendar for the following Programmes.
Specialised Programme in Astronomy,
Mathematics and Physics
Specialised Programme in Computational Science
and Mathematics
Specialised Programme in Mathematics
Specialised Programme in Statistics
Specialised Programme in Physical Sciences
Major Programme in Mathematical Sciences
(Mathematics)
Major Programme in Mathematics
The Major Programme in Mathematics is no
longer offered. Students currently registered
will be allowed to complete it.
MAT4050 Linear Algebra
Telephone ID #: 2614053
Vector spaces over K. Basis and
dimension. Systems of linear equations.
Linear transformations: kernel, image,
rank, matrix representation. Change of
basis. Determinants. Eigenvalues and
eigenvectors, characteristic polynomial,
Cayley-Hamilton theorem,
diagonalization. Introduction to linear
algebras, Canny-Schwarz inequality, Gram-
Schmidt orthogonalization.
Exclusions: (MATA20, MATA45), MATA47,
225, 229, 547
Prerequisites: Grade 13 Calculus and/or
Grade 13 Mathematics or OAC
Calculus and OAC Algebra
Session: Winter Day
MATAD060 Calculus
Telephone ID #: 20412663
Limits and continuity, derivatives, related
rates, extremum problems, graph
sketching, Newton's method, indefinite and
definite integrals, numerical integration,
Tayloe approximation and differential
equations. Students must have an approved
calculator with memory and the exponential
logarithmic and trigonometric functions
and their inverses.
MATAD060 introduces the basic
techniques of calculus with a strong
emphasis on methods of approximation.
The course will develop these ideas by the
investigation of specific examples.
MATAD062 is a demanding course which will
equip the student for most sciences and for
further work is mathematics.
Exclusions: MATA20, MATA45, MATA47,
133, 135, 139, 149
Prerequisites: Grade 13 Calculus and/or
OAC Calculus and one of OAC Algebra and
Geometry or OAC Finite Mathematics
Session: Winter Day, Summer Evening
MATAD063 Introduction to Optimization
Telephone ID #: 20412863
R^n as a model space in economics
constraint problems. Operation of one and several
variables, graphs. Derivatives, partial
derivatives, differentials, rates of
differentiation in several variables
including main rule, higher derivatives.
Exponential and logarithmic, geometric
series, discrete and continuous interest.
One variable optimization: relative and absolute
extrema, graph sketching, word
problems. Maxima algebra, linear
optimization. Linear systems in several variables.
Contour lines. Simplexes drawn from
economics. Students must have an approved
calculator with memory and the exponential
and logarithmic functions.
Exclusions: MATA20, MATA45, MATA47,
133, 135, 139, 149
Prerequisites: OAC Calculus and one of OAC
Music

(B.A.)

Discipline Representative: J. Mayo (287-7191)

Music courses on the Scarborough Campus are designed both for students who intend to pursue a career in the arts and for students whose interests are more general. Students who have taken music as a subject at high school or elsewhere will find a selection of historical, theoretical, and practical courses available, while students with no previous musical background can begin musical studies here.

Most of the upper-level courses assume that the student has some ability in reading music of a simple nature, and all continuing students are encouraged and helped to acquire this skill as soon as possible. All students should consider taking advantage of the various opportunities that exist in the College for practical music making—particularly the series of Supervised Performance Courses.

Major and Minor Programmes in Music History are offered (see below). Music is also a component of the Specialist Programme in the Arts (see Specialist Programme in Arts Administration (see pages 25 and 59).

Major Programme in Music History

Supervisor: J. Mayo (287-7191)

Students are required to complete a total of seven full-course equivalents in Music. The seven courses will be made up as follows:

1. MUSIC101Y Introduction to Music
2. MUSIB09F Materials of Music I
3. MUSIB09S Materials of Music II
4. Two full-course equivalents chosen from MUSIC courses.
   Each of these equivalents must be selected from MUSIC800-809, either MUSIB03 or MUSIB04 is required. At least one and one-half courses in this section should be at the C or D level. In exceptional circumstances, students may substitute
   one or more courses (HUM or TMU) offered by the Faculty of Music on the St. George Campus, music courses (MUS) offered through the Faculty of
   Arts and Science, or music courses from another institution.

Minor Programme in Music History

Supervisor: J. Mayo (287-7191)

Students are required to complete a total of four full-course equivalents in Music. The four courses will be made up as follows:

1. MUSIC101Y Introduction to Music
2. MUSIB09F Materials of Music I
3. Two and one-half full-course equivalents from MUSIC800-809
4. One full-course equivalent from the C or D level

MUSIB102Y Introduction to Music

Telecourse ID: 2201065

A study of the basic materials, principles of design, and the cultural significance of representative works of Western music from the Middle Ages to the present day.

Thru examples drawn from a variety of periods, students are introduced to ideas of musical style and design. These concepts are of great help in listening to and understanding works by composers as different from each other as Jauquin, Bach, Beethoven, Stravinsky and Duke Ellington. We shall also see how the style and society influence what composers write.

Through intelligent directed listening and through discussion and writing, students learn how to approach each piece of music on its own terms and, at the same time, how to communicate their ideas to others. No previous musical training is required, but students with some musical experience should also find this introduction valuable.

Upper level courses, for which MUSIC101Y is the prerequisite, are designed so that the student has some ability in reading music. Students who fail to continue to such upper level courses but who need additional preparation in music are recommended to take the optional tutorial given in the second term as a supplement to MUSIC101Y.

Exclusions: MUSIC101Y

MUS800-809

Session: Winter Day

J. Mayo

Offered 1995/96

MUSIB102F Music of the World's Peoples

Telecourse ID: 2201123

An introduction to the musical cultures of the world's peoples.

In our multi-cultural society, we are constantly exposed to sounds which do not follow the familiar patterns of musical expression. Accordingly, it is the purpose of this course to help the student to appreciate the music of other cultures and to recognize the variety and richness of musical invention in the world. Course materials will include selections from Africa, China, India, Japan, the Middle East and South America. In addition, the student will be introduced to Western Folk music and to the music of the native peoples of North America. Lectures will be devoted to a non-technical discussion of music, musical instruments and the place of music in society. No previous musical experience is required.

Exclusions: MUSIC101Y

Session: Summer Day

J. Mayo

Offered 1995/96

MUSIB102F Materials of Music I

Telecourse ID: 2202015

The basic materials of music from the Middle Ages to the present.

A study of elementary harmonies and melodic forms designed to equip the student with simple harmonic and compositional techniques. Aural aspects of the subject will be emphasized, providing a secure foundation for the development of the student's "inner ear" — that is, the ability to hear mentally what is written and to write down what the inner ear perceives.

Exclusions: MUSIC07, MUSIC17

Prerequisite: Royal Conservatory Gr II (music rudiments) or equivalent

Session: Winter Day

A. Rupley

Offered 1995/96 and 1996/97

MUSIB115 Listening to Music

Telecourse ID: 2201115

An introduction to the language of music for non-musicians.

In the noise-polluted environment in which we live, surrounded by sounds both musical and non-musical, listening to music becomes an art that needs to be consciously cultivated. This course is an introduction to the rewarding art of intelligent listening. Through examples drawn from a variety of musical sources, including non-Western and popular music as well as "classical" music, students are introduced to some of the mysteries of musical composition and gain a deeper understanding of how music works.

Throughout the course the emphasis is on what may be heard in a piece of music and theoretical concepts are kept to a minimum. No previous musical experience is required.

Exclusions: MUSIC01 (MUSIB102F), MUSIC100

Session: Winter Day

J. Mayo

Offered 1995/96

MUSIB12F Materials of Music II

Telecourse ID: 2201123

An introduction to the musical cultures of the world's peoples.

In our multi-cultural society, we are constantly exposed to sounds which do not follow the familiar patterns of musical expression. Accordingly, it is the purpose of this course to help the student to appreciate the music of other cultures and to recognize the variety and richness of musical invention in the world. Course materials will include selections from Africa, China, India, Japan, the Middle East and South America. In addition, the student will be introduced to Western Folk music and to the music of the native peoples of North America. Lectures will be devoted to a non-technical discussion of music, musical instruments and the place of music in society. No previous musical experience is required.

Exclusions: MUSIC101Y

Session: Summer Day

A. Sanger

Offered 1995/96

MUSIB12F Materials of Music II

Telecourse ID: 2202055

A continuation of MUSIC101Y.

Exclusions: MUSIC101Y, MUSIC211

Prerequisites: MUSIC101Y, MUSIC17

Session: Winter Day

J. Mayo

Offered 1995/96 and 1996/97

MUSIB12F Materials of Music II

Telecourse ID: 2202055

A continuation of MUSIC101Y.

Exclusions: MUSIC101Y, MUSIC211

Prerequisites: MUSIC101Y, MUSIC17

Session: Winter Day

J. Mayo

Offered 1995/96 and 1996/97

MUSIB12F Materials of Music II

Telecourse ID: 2202055

A continuation of MUSIC101Y.

Exclusions: MUSIC101Y, MUSIC211

Prerequisites: MUSIC101Y, MUSIC17

Session: Winter Day

J. Mayo

Offered 1995/96 and 1996/97
MUS214S Jazz
Telephone ID #: 22621453
A history of jazz from its African and European roots to present day experiments. The history of jazz is approached through an examination of the work of representative performers. Social questions and the relationship between jazz and "classical" music will be discussed. Class participation may include performance by exceptionally well-qualified students. No previous musical experience is required. Session: Summer Evening
TBA
Not offered 1995/96

MUSC209S Canadian Music
Telephone ID #: 22630953
A survey of music in Canada from the early 17th century to the present day. The course will follow the various kinds of music in Canada, including folk songs, Ballad operas, and the many varieties of music in the 20th century. Specific compositions will be selected for detailed study and comparison to music in Europe and the United States. Music of the Indians and Inuit will be heard and studied.
Prerequisite: MUSA909 (MUSB07) and one course from the series MUSB101-MUSB106.
Session: Winter Day
TBA
Not offered 1995/96 and 1996/97

MUSC211F Sheehan's Telephone ID #: 22631133
A study of selected symphonies, quartets and sonatas by Ludwig van Beethoven. The course traces the changes in the composer's style and techniques from his development under the influence of the Classic masters to his contributions to the expression of the nineteenth century. Prerequisite: MUSI101 and one course from the series MUSB101-MUSB106.
Session: Winter Day
J. Mayo
Not offered 1995/96 and 1996/97

Performance Courses
The following performance courses are also available to students on a non-credit basis and are open to all faculty and staff members. Entrance for all participants is by audition. Credit students should preregister but will not be admitted to the course unless granted permission of the instructor during the first week of classes.

MUSB210I Supervised Performance I-Chorus
Telephone ID #: 22622043
The practical study of a wide range of music from the choral repertoire. Students will be members of Scborough College Chorus, a chamber choir which performs compositions drawn from the literature of the Renaissance to the present day. The choir gives public performances in each term.
In addition, credit students may be required to prepare works in conjunction with members of the instrumental performance program. Previous experience is desirable but not essential. The course meets 2 hours per week for rehearsal with MUSB211 and MUSB252.
Prerequisite or Corequisite: Any A-level course in Music, MUSI811, MUSB11, MUSB111, or MUSB211
Session: Winter Day
TBA
Offered 1995/96 and 1996/97

MUSB212I Supervised Performance II-Chorus
Telephone ID #: 22622143
A continuation of MUSB210I. Prerequisite: MUSB211
Session: Winter Day
TBA
Offered 1995/96 and 1996/97

MUSB214I Supervised Performance I-Instrumental
Telephone ID #: 22622243
The practical study of ensemble performance.
Students will work in an ensemble and gain experience for public performance within the College. The emphasis of the course is on the particular repertoire of ensemble performance and it assumes a basic competence on the chosen instrument.
Each group will meet for 2 hours per week for rehearsal with MUSB211 and MUSB252.
Prerequisite or Corequisite: Any A-level course in Music, MUSI101, MUSB111, MUSB112, or MUSB113.
Session: Winter Day
C. Walter
Offered 1995/96 and 1996/97

MUSB216I Supervised Performance II-Instrumental
Telephone ID #: 22622343
A continuation of MUSB214I. Prerequisite: MUSB212I
Session: Winter Day
C. Walter
Offered 1995/96 and 1996/97

MUSB218I Supervised Performance III-Choir
Telephone ID #: 22622543
A continuation of MUSB211. Prerequisite: MUSB211 and a seminar in the previous term. In this seminar the elements of choral directing and conducting are introduced.
Session: Winter Day
TBA
Offered 1995/96 and 1996/97

MUSB220I Emerging Choral Literature
Telephone ID #: 22622643
A continuation of MUSB218I. Prerequisite: MUSB218I
Session: Winter Day
C. Walter
Offered 1995/96 and 1996/97

MUSB213I Independent Study
A directed reading course for students who have demonstrated a high level of academic maturity and competence.
Qualified students will investigate a field of musical scholarship which is of common interest to both student and supervisor and which is not available for study otherwise. Students meet regularly with the supervising faculty member and prepare a 5000-7500 word paper for a term course or a 10,000-20,000 word paper for a year course. Students who have demonstrated exceptional ability in MUSI909 and MUSI909 may in certain circumstances pursue a course of composition, producing a portfolio of original works in place of the essay. Students are advised that they must obtain consent from the supervising instructor before registering for this course.
Prerequisite: At least two full-course equivalents in music at the B- and C-level, permission of instructor to be obtained by the last date of classes in the previous term.
Session: Winter Day
Co-ordinator: J. Mayo
Offered 1995/96 and 1996/97

MUSB302F Modern Greek Music
Telephone ID #: 07222333
A course of interest to all students. For course description, refer to courses listed under Classical Studies.
Session: Winter Day
S. Minta
Not offered 1995/96

MUSB303F Music of the Baroque Era
Telephone ID #: 07222333
A course of interest to all students. For course description, refer to courses listed under Classical Studies.
Session: Winter Day
S. Minta
Not offered 1995/96
Neuroscience

Neuroscience encompasses aspects of a variety of disciplines that have the common goal of understanding how the nervous system works. Techniques borrowed from constituent disciplines like anatomy, physiology, biochemistry, psychology and pharmacology are being used to unravel some of the mysteries of the brain and its mechanisms of action. Investigators in Neuroscience have also made fundamental contributions in the clinical aspects of neurodevelopment and behavior.

The Major and Specialist Programmes in Neuroscience are administered jointly by Psychology and Biology and primarily include courses from these disciplines. They have been designed for students who are interested in pursuing graduate or medical training in Neuroscience. The Specialist Programme has a heavy laboratory component and students are encouraged to become actively involved in ongoing research. The subdisciplines represented at Scarborough Campus include behavioral neuroscience, neuroanatomy, neuropathology, neurochemistry and cell biology (applied to the nervous system).

Specialist Programme in Neuroscience

Supervisor: G. Day (Office: S299)

Note: Entry into this Programme is limited to a maximum of 25 students each year and will be based on grades obtained in PHYA03 Y, BIOA03 Y, and CHMA02 Y.

Balloting for acceptance into the Programme will occur in the Spring term. Acceptance at the end of second year is possible depending on availability of space. Students should consult the Supervisor of Studies.

The Programme requires completion of 14.5 full-course equivalents. Relevant Neuroscience courses offered in the College or Erindale campuses may only be used to satisfy a requirement with the permission of the Supervisor of Studies.

1. All of the following 9.5 full-course equivalents:
   BIOA03 Y Introduction to Biology
   CHMA02 Y General Chemistry
   CHMA03 Y Data Analysis in Psychology
   or
   STA222 F Statistics
   BIOS17 Y Animal Physiology
   PSYB08 F Brain Mechanisms and Behaviour: I
   PSYB09 F Brain Mechanisms and Behaviour: II
   PSYB10 F Psychophysiology
   PSYB10 F Psychology Laboratory
   PSYB10 F Sensory Systems
   or
   BIOL32 F Developmental Neurobiology
   CHMB44 Y Organic Chemistry I
   BIOL33 Y Introductory Biochemistry

2. 0.5 full-course equivalent from the following:
   MATA25 Y Calculus
   PSY203 Y Principles of Physics
   PHYA09 F Dynamics of Classical Systems
   PHYA10 F Electromagnetism and Solid State Devices
   CSCA02 F How Computers are Used
   CSCA02 F Computer Basics
   CSCA02 F Introduction to Scientific Computing
   or
   CSCA05 F Introduction to Computing
   CSCA05 F Introduction to Scientific Computing

3. At least 1.5 full-course equivalents from the following with no more than 0.5 full-course equivalent from the supervised study courses:
   PSYD06 F Synaptic Organization of the Brain
   PSYD06 F Current Topics in Physiological Psychology
   PSYD06 F Neuroplasticity: Mechanisms and Function
   PSYD06 F Psychology of Aging: Cross-cultural Survey
   NROC51 F Supervised Study in Neuroscience
   NROC68Y Thesis in Neuroscience

4. At least 1.0 full-course equivalent from the following:
   PSYB01 F Psychological Research Laboratory
   PSYB10 F Experimental Design in Psychology
   PSYB10 F Learning Laboratory
   PSYB10 F Experimental Psychology
   PSYB10 F Microcomputer Laboratory
   BIOC31 F Laboratory in Biochemistry
   BIOC25 F Variate Biology: Cells and Tissues
   BIOC10 F Molecular Biology of the Gene

5. At least 1.0 full-course equivalent from the following:
   BIOC10 F Genetics
   BIOC31 F Developmental Biology
   BIOC25 F Variate Biology: Cells and Tissues
   BIOC25 F General Biology of Variates
   BIOC31 F Animal Behaviour
   BIOC31 F Evolutionary Biology
   BIOC31 F Theoretical Foundations of Biology I
   BIOC31 F Molecular and Classical Cytogenetics
   BIOC10 F Evolutionary Genetics
   BIOC10 F Abnormal Psychology
   BIOC10 F Sensation and Perception
   BIOC10 F Perception and Cognition
   PSYB11 F Memory and Cognition
   PSYB11 F History of Psychology
   PSYB11 F Disorders of Speech and Language

7. Students planning on graduate work in Neuroscience are advised that undergraduate courses in Physics and Calculus may be required for that graduate programme.

Major Programme in Neuroscience

Supervisor: G. Day (Office: S299)

The programme requires seven full-course equivalents. Students who might consider completing a four-year degree are encouraged to include in their electives below the following courses: CHMA44 Y and BIOC31 F so that they would be eligible for the Specialist Programme.

The following outline indicates the required courses and the recommended sequencing for the Major Programme in Neuroscience.

1. To be completed in the first year of full-time study (or equivalent):
   PSYA01 Y Introduction to Psychology
   BIOC0 Y Introductory Biology

2. To be completed by the end of the second year of full-time study (or equivalent):
   PSYB01 F Psychological Research Laboratory
   PSYB10 F Experimental Design in Psychology
   CHMA02 Y General Chemistry
   CHMA03 Y Data Analysis in Psychology
   or
   STA222 F Statistics
   PSYB08 F Brain Mechanisms and Behaviour I
   PSYB09 F Brain Mechanisms and Behaviour II
   BIOC31 F Laboratory in Biochemistry
   BIOC25 F Variate Biology: Cells and Tissues
   BIOC10 F Molecular Biology of the Gene
   BIOC31 F General Biology of Variates
   BIOC31 F Animal Behaviour
   BIOC31 F Evolutionary Biology
   BIOC31 F Theoretical Foundations of Biology I
   BIOC31 F Molecular and Classical Cytogenetics
   BIOC10 F Evolutionary Genetics
   BIOC10 F Abnormal Psychology
   BIOC10 F Sensation and Perception
   BIOC10 F Perception and Cognition
   PSYB11 F Memory and Cognition
   PSYB11 F History of Psychology
   PSYB11 F Disorders of Speech and Language

A reading or research project

These courses provide an opportunity to investigate an area in depth after completing basic coverage in regularly scheduled courses. They are not intended as substitutes for advanced courses in fields where these are available. The student must demonstrate that he or her background is adequate for the project proposed and should present a clear rationale to prospective supervisors. Frequent consultations with the supervisor is necessary and extensive library research under the guidance of the supervisor will be required. Such a project will culminate in a written submission. These courses cannot be repeated for credit.

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

Prerequisites: Three full-course equivalents in Psychology or Biology; permission of
Philosophy (B.A.)

Discipline Representative: Lynda Lange (287-7153)

Philosophy consists of a critical analysis of the ideas and concepts fundamental to all major areas of human concern: science, society, religion, morality, and art. Its aim is to scrutinize the basic notions in these areas, to clarify the principles on which they are founded, to evaluate such beliefs for their soundness, and to explore their implications for a comprehensive understanding of the world in which we live.

Philosophy originates in the desire to know, and its various parts of the systematic development of a questioning attitude and critical awareness.

PHIL101Y is recommended as an introduction to the field of philosophy in general. It is required for all Majors and Specializations in Philosophy. It level courses are more specialized in content, but they are open to anyone interested in the topic of the course. All C-Level Philosophy courses carry at least a half course pre-requisite in Philosophy.

Course offerings in Philosophy form a two- or three-year cycle: courses not offered in one academic year will normally be available in one of the following years. PHIL101Y, PHIL102Y, PHIL103Y, and PHIL106Y are normally offered every year. It should be noted that in almost all subjects Fall/Spring sequences are offered which, when combined, provide the equivalent of a full course whose first half is at the B-level, and whose second half is at the C-level. Courses in a sequence are usually scheduled in the same time slot. The B-series of courses is arranged in decade units according to areas within Philosophy, not in order of difficulty, and this arrangement is followed at the C-level (except for seminar courses).

Note to Majors and Specializations:

Many of the philosophy courses can be offered only on a two- or three-year rotation. The courses listed as Not Offered this year are likely to be offered the following year, and some of this year's offerings will be dropped to make room for them. You should try to plan your programme a year or two ahead to be sure of getting the courses you want. See the Discipline Representative for further information.

Wednesday 4:00 p.m. is reserved for the Senior Seminar (PHIL101Y).

Cogntive Courses

Philosophy students should seriously consider the advantages of studying a language, especially French, German, or Latin. A course in language will give students access to much philosophical thought in its original language and to many secondary sources not available in English.

There are a variety of courses in Classics, English, Fine Arts, History, and Humanities which will help to supplement the Programmes of many students. In particular, students should consider the following courses: HUM101Y, Prehistory; HUM102Y, European World-Age History; Introduction to Astronomy. Such courses provide a historical background for the study of Philosophy.

Specialist Programme in Philosophy

Supervisor: Lynda Lange (287-7153)

Students must complete at least fourteen full-course equivalents including:

1. PHIL401Y Fundamental Questions of Philosophy

2. PHIL402Y Ethics

3. PHIL403Y Belief, Knowledge, and Truth

4. PHIL404Y Symbolic Logic

5. PHIL405Y Existence and Reality

6. Four full-course equivalents in C-level or D-level Philosophy courses, including PHIL401Y, Senior Seminar.

7. Four additional full-course equivalents in Philosophy courses.

8. Two full-course equivalents from cognate courses in other disciplines agreed upon after consultation with the Supervisor. Students are encouraged to follow a sequence of language courses in fulfillment of this requirement.

Note to Specialists: The philosophy faculty members also teach graduate courses on the St. George campus that are frequently cross-listed at undergraduate equivalent (D-level) courses. These can be used to fulfill the Scarborough Specialist degree. Students can check with the discipline representative about these courses.

Major Programme in Philosophy

Supervisor: Lynda Lange (287-7153)

Students must complete at least seven full-course equivalents in Philosophy including:

1. PHIL101Y Fundamental Questions of Philosophy

2. Two of the following half-courses: PHIL102Y Ethics, PHIL103Y Belief, Knowledge, and Truth, PHIL104Y Symbolic Logic, PHIL105Y Existence and Reality

3. Two half-courses from PHIL102Y to PHIL104Y and PHIL105Y to PHIL107Y

4. Two full-course equivalents in C-level or D-level Philosophy courses

5. Two additional full-course equivalents in Philosophy courses.

NOTE:

In certain cases students combining a Major Programme in Philosophy with a Programme in another discipline may elect to modify the Major Programme. Students electing modifications must have the approval of the discipline representative.
PHIL115 Philosophy and Feminism
Telephone ID #: 24521331
Study and discussion of a variety of issues in contemporary feminist philosophy, such as: questions of inclusion and exclusion in feminist theory (race, class, sexual orientation, disability, etc.); the masculinization of the rational; causes of women's oppression; epistemological questions, questions of methodology.
Session: Winter Day
L. Lange
Offered every year

PHIL115 Philosophy of Education
Telephone ID #: 24521533
A study of the nature of education.
Exclusion: PHIL315
Session: Summer Evening
TRA

PHIL200 Belief, Knowledge, and Truth
Telephone ID #: 24522031
An examination of such questions as certainty, the problem of skepticism, the scope and limits of human knowledge, the subjectivity of perception, rationality, and theories of truth.
Exclusion: PHIL230
Session: Winter Day
S. Sedivy
Offered every year

PHIL205 Plato and his Predecessors I
Telephone ID #: 24524031
A study of the origins of philosophy in Greece and the views of the earliest philosophers regarding the nature of the world. A consideration of main aspects of the philosophy of Plato.
Session: Winter Day
TRA
Offered 1996/97

PHIL205 Aristotle I
Telephone ID #: 24524251
A study of central themes in the philosophy of Aristotle.
Session: Winter Day
M. Kingwell
Offered 1996/97

PHIL305 Symbolic Logic I
Telephone ID #: 24525031
An introduction to formal techniques of reasoning, sentential logic, and quantification theory or predicate logic.
The emphasis is on appreciation of and practice in techniques, for example, for formal analysis of English statements and arguments, and for construction of complete and rigorous proofs. Topics of more theoretical interest are presented in lectures. The text is

D. Kalish, R. Montague and O. Mar, Logic: Techniques of Formal Reasoning;
Exclusion: IMPP350, PHIL245
W. Seager
Offered every year

PHIL405 Metaphysics
Telephone ID #: 24526053
A consideration of problems in metaphysics.
Metaphysics is the attempt to see "how things hang together" in the most general possible sense of this phrase. Some of the issues we will cover: the creation and form of the universe, the nature of truth, the ground of possibility and necessity and their relation and the problem of freedom of the will.
Exclusion: PHIL231
Session: Winter Day
W. Seager
Offered every year

PHIL405 Philosophy of Science
Telephone ID #: 24527031
A study of philosophical questions raised by the natural sciences.
We shall discuss: alternative conceptions of theory structure; the role of scientific methodology in explaining and predicting phenomena; and the rationality and progress of science.
Exclusion: (C1P2C70P/PHIL237), PHIL355, HOC70P
Prerequisite: One course or half-course in Philosophy or in the Division of Science.
Session: Winter Day
TRA
Offered 1996/97

PHIL415 Theories of Mind
Telephone ID #: 24528131
An examination of questions concerning the nature of mind and thinking.
Traditionally, the mind has been conceived as a mysterious component of human beings, existing in relative independence from the conditions of physical life. Modern research into the structure and function of the brain has thrown doubt on this view, and work in computer science suggests that minds and thinking can even be attributed to machines.
We will examine the nature of mind and such questions as what thinking is, and whether or not machines can have a mind.
Exclusion: PHIL240, 242
Session: Winter Day
S. Sedivy
Offered every year

PHIL505 Ethics II
Telephone ID #: 24530153
Major twentieth-century ethical theories. Topics studied may include, for example, G.E. Moore's non-realist, W.D. Ross' sentimentalism, J.L. Mackie's moral skepticism, and R.M. Hare's universal prescriptivism.
Exclusion: PHIL302, PHIL375
Session: Winter Day
H. Sobel
Offered 1996/97

PHIL506 Philosophy of the Early Modern Age II
Telephone ID #: 24534633
Philosophy in the eighteenth century.
The rapid political and economic changes of the early modern period, the abandonment of classical ideas in the arts, and the progress of science all combine to force eighteenth-century thinkers to abandon the seventeenth-century search for a stable rational order. In their place they put criticism and naturalism: the assessment of constantly changing ideas, and the accommodation of man to a world of change. This course will be a survey of the main thinkers of the period.
Exclusion: PHIL474, PHIL210
Prerequisite: One full-course equivalent in Philosophy
Session: Winter Day
G. Nagel
Offered 1996/97

PHIL501 Philosophy in the Later Modern Age
Telephone ID #: 24534853
A continuation of PHIL504.
We will continue our discussion of Hegel, Nietzsche and Freud, and include Schopenhauer and Wittgenstein. Beginning with their thoughts about art, religion and philosophy, we go on to more topical issues such as death, suffering and justice.
Prerequisite: One full-course equivalent in Philosophy
Session: Winter Day
G. Nagel
Offered 1996/97

PHIL515 Symbolic Logic II
Telephone ID #: 24535153
A continuation of PHIL510.
The natural deduction system studied in Symbolic Logic I is extended to cover identity and definite descriptions. Special attention is paid to the restrictions of the identity calculus to "extensional" terms and formulas. Alternative treatments of defense descriptions, one that follows Frege, the other that follows Russell, are developed and compared. The text is D. Kalish, R. Montague and O. Mar, Logic: Techniques of Formal Reasoning.
Exclusion: IMPP350, PHIL250
Session: Winter Evening
J.H. Sobel

PHIL585 Seminar in Philosophy: Feminism
Telephone ID #: 24538531
Selected themes in the philosophical tradition in dialogue with central issues in contemporary feminist theory. These may include: critical discussion of themes from Plato to Freud which have been used to justify the subordination of women; theories of how gendered individuals are created, feminine conceptions of self, autonomy, ethics, or the state.
Exclusion: PHIL267
Prerequisite: Two II-level half-courses in Philosophy.
Session: Winter Day
L. Lange

PHIL587 Seminar in Philosophy: Philosophy and Friendship
Telephone ID #: 24538731
A detailed description of this course will be available in Spring 1994.
Session: Winter Evening
W. Friedman-Sobel

PHIL605 Contemporary Analytic Philosophy
Telephone ID #: 24538931
An examination of contemporary developments in theories of the mind, meaning and truth. Contemporary issues will be set up by tracing their development. Our main concerns will be the opposition between internalism/externalism and realism/anti-realism in current understanding of mind and meaning.
Prerequisite: One full-course equivalent in philosophy or permission of the instructor
Session: Winter Evening
S. Sedivy

PHIL625 Seminar in Philosophy: Liberalism and the Office
Telephone ID #: 24539253
An examination of recent works by liberal political theorists, together with criticism of them by thinkers from both left and right. In recent years, liberals' attempts to secure political legitimation by way of abstraction from moral conflict has prompted many philosophers to challenge the liberal view of the self, of morality, and of moral commitment. These "communitarian" critics charge that
liberalism works only at the cost of emptying political life of meaning. We will assess the charge. Authors to be studied include Rawls, Kymlicka, Sandel, Kymlicka, Sandel, Rawls, Lyotard and Taylor.

Prequisite: PHL.380 or permission of instructor.
Session: Winter Day
M. Kingswell

PHL.396S Seminar in Philosophy: Consciousness
Telephonic ID #: 24593553
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 relationship between consciousness and intentionality, as well as various philosophical theories of consciousness.
Prequisite: PHL.381 or permission of the instructor.
Session: Winter Evening
W. Seager

PHL.401T Senior Seminar
Telephonic ID #: 24560164
A discussion of topics of current research interest of the philosophy faculty at Scarborough College. The course will focus on 4 or 5 particular issues drawn from a traditional range of philosophical topics, such as metaphysics, ethics, political philosophy, epistemology and value theory. The course is designed to provide students, particularly but not exclusively specialists, a forum in which they can participate in current philosophical research and engage directly with the faculty in a small group.
Prequisite: at least six full course equivalents in philosophy
Session: Winter Day
Faculty Offered every year

PHL.401T Senior Thesis
Telephonic ID #: 24541061
An opportunity for you to engage in philosophical research, and to write a major philosophical essay on a topic approved by the faculty in Philosophy.
It is your responsibility to choose a topic and to submit it, together with a proposed working outline and preliminary bibliography, to the Philosophy Supervisor before the end of the second week of the fall term (ideally, before the end of the previous spring term). If the topic is approved you will consult with relevant faculty members during your work on the thesis.

In the spring term, and before submitting the completed thesis for evaluation, you will present a seminar report on your work to fellow students and staff. The seminar must be held prior to the final two weeks of classes, and you are responsible for setting a date for it in consultation with the Philosophy Supervisor. The thesis will be evaluated by at least two philosophy faculty members.
Prequisite: you should be completing the last year of a four year (twelve course) degree, and have at least six full course equivalents in philosophy, at least two at the C-level.
Session: Winter Day

PHL.405S
PHL.406S
PHL.407S
PHL.408S
PHL.409S
PHL.410S Independent Studies
Three courses are designed for students who wish to engage in advanced-level work on a well-defined topic. Hence, when requesting permission of the Philosophy Supervisor, students will be required to provide a written 200-300-word proposal which must include:
- A rationale for including the course in the student's programme of study, a clear indication of what benefits the student expects to achieve in the course, and a tentative bibliography.
- Students who require assistance should consult with the Philosophy Supervisor.

Note: Independent studies courses are normally open to Majors and Specialists in Philosophy during their final five full courses of study. Application should be made to the Philosophy Supervisor, preferably in the preceding term, stating the topic to be pursued in a description of about one page. The Supervisor will arrange to have the study directed by an appropriate member of faculty.

Students are advancing that they must obtain consent from the supervising instructor before registering for these courses.
Prequisite: At least three full course equivalents in Philosophy including, at least one at the C-level; permission of supervisor.
Session: Winter Day

Courses Not Offered in 1994/95

PHL.405S Ethics
PHL.406S The Philosophy of Art
PHL.407S Anarchism

Physical Sciences
Scarborough

(B.Sc.)

Physical Sciences Scarborough is a closely integrated group of specialist programmes emphasizing close coordination among traditional subject areas to educate students with an integrated view of science. Admission to the Physical Sciences Scarborough programme takes place in first year.


Most programmes cover at least two cognate disciplines, and as a result 14 to 17 full course equivalents (FCEs) must be specified in a 20 course programme. Introductory courses in Physics and Calculus form a basis for all programmes, and it is intended that all programme students take these courses together. The choice of other introductory courses depends on the individual programme, ranging from the mathematically oriented programmes to those in environmental science. A special first year programme committee will have overall responsibility for the introductory courses, including overcrowding and work-load balancing so that students are not overwhelmed by the transition to University. The progress of students across their Physical Sciences courses will be monitored throughout the year, and counselling will be provided as appropriate.

Students from the various programmes in higher years will take common courses with students in the same year, so that the cohort will retain a common identification. This will provide significant benefits for the students, particularly through encouraging communication across the disciplines involved. Common courses in the final year will serve to integrate the knowledge gained.

Students should be aware that some courses are offered in alternate years. These courses may be taken in the year of study in which they are offered provided prerequisites have been satisfied.

Early Teacher Project
The Early Teacher Project is designed to prepare future high school teachers of Science and Mathematics. It has been developed in cooperation with the Faculty of Education, University of Toronto. The Physical Sciences Scarborough programmes are designed to lead to Honours Specialist Ontario Teacher Certification in one or more subjects. To participate students must continue to be registered in a Physical Sciences Scarborough Programme and participate in an orientation session in second year. Subsequently these students will work with experienced teachers in class rooms or secondary schools in the third and fourth years. There will also be the opportunity to work with a specialist teacher as part of the programme. The Early Teacher Project will count for academic credit (though not as part of the 20 course requirement of a degree). A successful completion of the Early Teacher Project, together with a Physical Sciences Scarborough Specialist Programme with a 2.5 GPA standing in Science (6.0 FCEs) will guarantee admission to the Faculty of Education for at last thirty students each year.

Specialist Programme in Astronomy, Mathematics and Physics
Supervisor: C. C. Dev, E. J. G. Lee
This programme requires 16 FCEs as listed below. The programme provides a good grounding in the main areas of astronomy, mathematics and physics. It is intended for students who wish to pursue a career teaching or to acquire a broad understanding in these subjects before
understanding a career in government or industry.

First year:
- **CHM200Y**: General Chemistry
- **CSC275**: Introduction to Scientific Computing
- **MAT229Y**: Calculus
- **PHI101Y**: Principles of Physics*

Second year:
- **CHM312Y**: Analytical Chemistry I
- **CHM313Y**: Analytical Chemistry II
- **CHM314Y**: Organic Chemistry I
- **CHM315Y**: Organic Chemistry II
- **MAT342**: Techniques of the Calculus of Several Variables I
- **MAT343**: Techniques of the Calculus of Several Variables II

Third year:
- **CHM422F**: Physical Chemistry II
- **CHM426F**: Physical Chemistry Lab
- **CHM435**: Inorganic Chemistry II
- **CHM444**: Inorganic Chemistry Lab
- **PHI401Y**: Principles of Physics*

Fourth year:
- **CHM435**: Inorganic Special Topics
- **CHM436**: Inorganic Catalysis
- **CHM437**: Inorganic Chemistry Research
- **CHM438**: Library Theses
- **CHM439**: Library Theses
- **CHM440**: Inorganic Chemistry Lab

*PHY110 is not an acceptable substitute.

Specialist Programme in Chemistry

**Subject**: Chemistry, students interested in careers in government or industry are recommended to take this course.

First year:
- **CHM200Y**: General Chemistry
- **CSC275**: Introduction to Scientific Computing
- **MAT229Y**: Calculus
- **PHI101Y**: Principles of Physics*

Second year:
- **CHM312Y**: Analytical Chemistry I
- **CHM313Y**: Analytical Chemistry II
- **CHM314Y**: Organic Chemistry I
- **CHM315Y**: Organic Chemistry II
- **MAT342**: Techniques of the Calculus of Several Variables I
- **MAT343**: Techniques of the Calculus of Several Variables II

Third year:
- **CHM422F**: Physical Chemistry II
- **CHM426F**: Physical Chemistry Lab
- **CHM435**: Inorganic Chemistry II
- **CHM444**: Inorganic Chemistry Lab

Fourth year:
- **CHM435**: Inorganic Special Topics
- **CHM436**: Inorganic Catalysis
- **CHM437**: Inorganic Chemistry Research
- **CHM438**: Library Theses
- **CHM439**: Library Theses
- **CHM440**: Inorganic Chemistry Lab

*PHY110 is not an acceptable substitute.

Specialist Programme in Environmental Chemistry

**Subject**: Environmental Science, students interested in careers in government or industry are recommended to take this course.

First year:
- **CHM200Y**: General Chemistry
- **CSC275**: Introduction to Scientific Computing
- **MAT229Y**: Calculus
- **PHI101Y**: Principles of Physics*

Second year:
- **CHM312Y**: Analytical Chemistry I
- **CHM313Y**: Analytical Chemistry II
- **CHM314Y**: Organic Chemistry I
- **CHM315Y**: Organic Chemistry II
- **MAT342**: Techniques of the Calculus of Several Variables I
- **MAT343**: Techniques of the Calculus of Several Variables II

Third year:
- **CHM422F**: Physical Chemistry II
- **CHM426F**: Physical Chemistry Lab
- **CHM435**: Inorganic Chemistry II
- **CHM444**: Inorganic Chemistry Lab

Fourth year:
- **CHM435**: Inorganic Special Topics
- **CHM436**: Inorganic Catalysis
- **CHM437**: Inorganic Chemistry Research
- **CHM438**: Library Theses
- **CHM439**: Library Theses
- **CHM440**: Inorganic Chemistry Lab

*PHY110 is not an acceptable substitute.
students should take C level environmental chemistry courses and not CHM105.

Specialist Programme in Computer Science
Supervisor: G. Capi (287-7253)
This programme provides a broadly based education in computer science. It prepares a student for a professional position in the computer field, and for graduate study in computer science.

First year:
CSC455F Introduction to Computing
MAT404Y Linear Algebra
MAT42FY Calculus
PH406Y Principles of Physics or
PH401F Electromagnetism and Solid State Devices

First or Second Year: CSC705 - Computer Applications

Second year:
CSC385F File Structures and Data Management
CSC385F Discrete Mathematics
CSC385S Computer Organization
MAT4554 Techniques of the Calculus of Several Variables I
MAT455S Techniques of the Calculus of Several Variables II
MAT455S Introduction to Analysis

One of:
MAT404F, MAT405F, MAT455F

Fourth year:
CSC505F Software Tools
CSC505F Numerical Algebra and Programming
CSC505S Numerical Approximation, Integration and Ordinary Differential Equations
CSC505S Microprocessors

One of:

and two of:
MAT455S, CSC555F, CSC555S

One other 0.5 C.E. in Computer Science

and two of:
MAT504S, CSC555F, CSC555S

One half F.C.E. from other C level Statistics courses at Scarborough, CSC705F, and 300 and 400 level Statistics courses on the St. George campus.

Third or Fourth Year: STAC525, STAC525, STAC525, STAC525, STAC525F (Note: Not all C level statistics courses are offered every year)

Fourth year:
CSC505F Numerical Algebra and Optimization
CSC505S Numerical Approximation, Integration and Ordinary Differential Equations
CSC705F The Physical Sciences in Contemporary Society
CSC705S Current Questions in Mathematics and Science

*PHY410 is not an acceptable substitute.

Specialist Programme in Computer Science and Statistics
Supervisor: S. Chawla (287-7252)
The Specialist Programme in Computer Science and Statistics provides a student with the computational and statistical background required in many applications of these fields. The Programme prepares students for employment opportunities in business, government and education for further graduate study. This Programme is also an option available in the Co-op Computer Science and Physical Sciences Program. See listing under Co-op.

First year:
CSC455S Introduction to Computing
MAT404Y Linear Algebra
MAT42FY Calculus
PH406Y Principles of Physics or
PH401F Electromagnetism and Solid State Devices

First or Second Year: CSC705 - Computer Applications

Second year:
CSC385F Discrete Mathematics
CSC385F Computer Organization
MAT404F Geometry I
MAT42FY Algebra I
MAT455S Algebra II
MAT455F Techniques of the Calculus of Several Variables I
MAT455S Techniques of the Calculus of Several Variables II
MAT455S Introduction to Analysis

Third year:
CSC385S Principles of Programming Languages
CSC385F Effective and Efficient Computing
CSC385F Data Structures and Algorithm Analysis
MAT404F Graph Theory
MAT42FY Differential Equations I
MAT455S Differential Equations II
MAT455S Statistics
MAT455F Introduction to Probability
MAT42FY Theory and Mathematical Statistics

Fourth year:
MAT404Y or MAT455F

CSC705F Data Structures and Algorithm Analysis

Supervisor: C. C. Dyer
This Programme is also available as an option in the Co-op Computer Science and Physical Sciences Program. See listing for Physical Sciences Co-op programmes.

First year:
CSC455S Introduction to Computing
MAT404Y Linear Algebra
MAT42FY Calculus
PH406Y Principles of Physics or
PH401F Electromagnetism and Solid State Devices

First or Second Year: CSC705 - Computer Applications

Second year:
CSC385F File Structures and Data Management
CSC455F Discrete Mathematics
CSC455S Computer Organization
MAT404F Techniques of the Calculus of Several Variables I
MAT455S Techniques of the Calculus of Several Variables II
MAT455F Introduction to Analysis
STAB47S Introduction to Probability Theory and Mathematical Statistics

Third year:
CSC385F Principles of Programming Languages
CSC455S Effective and Efficient Computing
CSC455F Data Structures and Algorithm Analysis
CSC455F Graph Theory
CSC455S Differential Equations I
CSC455S Differential Equations II
CSC455S Statistics
CSC455F Introduction to Probability
CSC455S Theory and Mathematical Statistics

Fourth year:
MAT404Y or MAT455F

CSC705F Software Tools
Principles of Programming Languages

Numerical Algebra and Coding Theory

Data Structures and Algorithm Analysis

Microprocessors

Differential Equations I

Philosophy of Science

Physical Principles of Modern Technology

Fourth year:

Numerical Approximation, Integration and Onwards

Effective and Efficient Computing

Classical and Quantum Waves

Structure of Matter

One additional F.C.E. from other C-level Physical Sciences

The Sciences in Contemporary Society

Current Questions in Mathematics and Science

**PHY110 is not an acceptable substitute.**

Specialist Co-operative Programme in Computer Sciences and Physical Sciences

Director: H. Wittman (287-7107)

Co-ordinator: G. Culp (287-7253)

Supervisor of Studies: C. Dyce (287-7206)

The Co-operative Programme in Computer Science and Physical Sciences is a work-study programme which combines academic studies in computer science, and other disciplines in the physical sciences with work placements in public and private enterprises. The programme alternates study during the regular academic term (September to May) with work terms during the summer term (May to August).

The programme prepares students for permanent employment with government and business enterprises concerned with research and technology as well as for graduate study in Computer Science. Graduates receive a four-year B.Sc. with a specialist certification in Computer Science and Physical Sciences.

Admission to the Programme

Applicants from Grade 13 OAC programmes (or equivalent) should indicate their choice of Scarborough College and the Co-Operative Programme in Computer Science and Physical Sciences on their application form for admission to an Ontario University. They will then be sent a special application form for admission to a co-operative programme. In the first year, University and College may apply whether or not they have completed the first year curriculum. The timing of their work placement will depend upon the particular university courses they have already completed.

Admissions are granted on the basis of the applicants' academic performance, background in relevant subjects, and a letter of reference from a high school teacher or university instructor. An interview may be required. Enrolment is limited and only a small number of applicants can be accepted each year. Decisions about admissions are normally made annually in May and early June. To be considered for the first round of selection, co-op applications must be received by April 30, 1985. Therefore it is essential that the applicant apply to the University at least six weeks prior to this date.

First year: Every student in a co-operative programme is required to pay additional fees as established by the University.

The Specialist (Co-operative) Programme in Computer Science and Physical Sciences

This programme requires twenty F.C.E.'s (four years) of study and two work terms of four months each. Exceptionally, with the agreement of the director and co-ordinator, a third work term may be allowed. Students are eligible for their first work term after their first two years of study. Work placements are arranged by the Office of Co-operative Programmes but must be won by students in competition with all applicants.

Performance on work terms will be evaluated by both employer and co-ordinator. Students must also submit for evaluation a report for each work term.

To maintain standing in the programme, to be eligible for a work term, and to receive specialist certification upon graduation a student must:

- maintain a cumulative grade point average of at least 2.5;
- receive a satisfactory evaluation for work term performance and work term;
- be registered as a full-time student during study terms;
- complete two of the courses offered within this cooperative programme. These courses will be outlined below as Option A: Core Computer Science and Physics and Option B: Computer Science and Statistics. Note that courses need not be taken in exactly the indicated order, but if an alternative ordering is adopted, care must be taken to ensure that prerequisites are satisfied and conflicts avoided.

Each Student's Programme requires the Annual Approval of the Supervisor of Studies.

Option A

Computer Science and Physics

First year:

CSCA860Y, MAT240Y, PHYA01Y

Second year:

CSCB188F, CSCB18F, MATB41F and MATB42S, PHYB21F, PHYB22F, PHYB23H

Third year:

CSCB88S, CSCC24S, CSCC56F, CSCC56F, MATC11F, PHB70F, PSCD03S

Fourth year:

CSCC56S, CSCC54S, PHYC21F, PHYC22S, PSCD01F, PSCD02S, one F.C.E. from other C level Physical Sciences Scarcbarough courses.

**PHY110 is not an acceptable substitute.**

**Students currently registered in year four of the programme should consult the 1990/1 Calendar and the programme supervisor.**

Option B

Computer Science and Statistics

First year:

CSCA860S, MAT240Y, PHA01Y or PHYA11S

Second year:

CSCB188F, CSCB18F, CSCB88S, MATB41F, MATB42S, STAR23F, STAR47S

Third year:

CSCC24S, CSCC56S, CSCC71F, (STAC27F, STAC32S, STAC45S) or (STAC23F, STAC57S, STAC75S), plus one half F.C.E. from C level statistics courses, CSCC54F, and 300 and 400 level statistics courses on the St. George Campus.

Fourth year:

CSCC56S, CSCC54S, PSCD01F, PSCD02S, (STAC27F, STAC32S and STAC45S) or (STAC23F, STAC57S, STAC75S), plus one half F.C.E. from C level statistics courses, CSCC54F, and 300 and 400 level statistics courses on the St. George Campus.

**PHY110 is not an acceptable substitute.**

NOTE: STUDENTS ARE INDIVIDUALLY RESPONSIBLE TO INSURE THAT THEY HAVE CORRECTLY COMPLETED PROGRAMME AND REQUIREMENTS FOR GRADUATION.

Eligibility for work placements

To compete for work term placement a student must be good in standing in the Programme and must have completed at least ten F.C.E.'s.

Normally, students return to their studies after each work term (and must be registered in courses after the completion of their last work term).

CSPG1/68H Computer Science and Physical Sciences Co-op Work Term

Work terms are an integral part of the co-op curriculum. Practical work experience in an appropriate, related field is alternated with study terms to enhance academic studies and develop professional and personal skills. Work term reports are required at the completion of each work term.

Continuation in a Co-Op Programme is based on a student's ability to meet both the academic and work term requirements. To be eligible for work term students must be in good standing in the Programme and must have completed 10 courses. Course credit of 0.5 F.C.E. is granted for each four month work period. Work term credits are in addition to the 20 full-course degree requirements and are graded on a Credit, No Credit system. There are no additional course fees for work terms.

Specialist Co-operative Programme in Environmental Science

Director: H. Wittman (287-7107)

Supervisor of Studies: T. Price (287-7377)

The Co-operative Programme has a strong basis in environmental disciplines such as
Biology, Geography and Geology, but emphasizes fundamental sciences such as Physics, Mathematics and Chemistry. The programme is interdisciplinary in nature, and includes courses in other relevant disciplines, such as Environmental Economics and Environmental Law. One of the major thrusts of the programme is to provide education and training which will produce highly qualified scientists with good practical and field experience through course work and placement, with a view to employment in research, teaching, consultancy, government agency or regulatory work.

This Programme provides both the formal course material of a Specialist programme with work-sudy experience through terms following completion of second year, and completion of third year. The work study terms, during the summer terms, are intended to provide actual experience in the field of environmental science in placements that are judged to be supportive of the student participation in the Programme.

Specialist Programme in Environmental Science

Programme: Specialist Programme in Environmental Science
Supervisor: Professor Price (287.7327)
This programme is a response to the needs of the environment and society. It is a strong basis in environmental disciplines such as Biology, Geography and Geology, but also emphasizes fundamental sciences such as Physics, Mathematics and Chemistry. The programme is interdisciplinary in nature, and as such is not confined to courses in other relevant disciplines. Environmental Economics and Environmental Law. One of the major thrusts of the programme is the importance of fieldwork and practical experience. The programme is subdivided into four distinct sections: (1) Environmental Science, (2) Remote Sensing and Geographic Information Systems, (3) Ecological Biogeography and Diversity, and (4) Physical and Geographical Geology.

Admission to the Programme

Applicants may apply to the programme directly from secondary school or may apply after transfer from college or first year university. The timing of work placements for students who transfer will depend on the particular university course completed. When applying, applicants must indicate the special code for this Scarborough Campus programme on the Application Form for Admission To An Ontario University. Once the University of Toronto is notified of the application, candidates are notified of an additional co-op application form to complete. This co-op application must be received by the Scarborough College

Registrar's Office no later than April 15, 1994, to ensure an applicant's consideration. In order to allow sufficient time for processing, it is therefore important that the applicant apply to the University of Toronto in early March. Note that enrolment in the programme is limited. Enrolment is considered on the basis of the applicant's academic performance, background in relevant subjects, and a letter of reference from a high school teacher or university instructor. An interview is required.

Fees

Every student in a co-operative programme is required to pay additional fees as established by the University of Toronto.

Specialist Programme in Environmental Science

Supervisor: Professor Price (287.7327)
This programme is a response to the needs of the environment and society. It is a strong basis in environmental disciplines such as Biology, Geography and Geology, but also emphasizes fundamental sciences such as Physics, Mathematics and Chemistry. The programme is interdisciplinary in nature, and as such is not confined to courses in other relevant disciplines. Environmental Economics and Environmental Law. One of the major thrusts of the programme is the importance of fieldwork and practical experience. The programme is subdivided into four distinct sections: (1) Environmental Science, (2) Remote Sensing and Geographic Information Systems, (3) Ecological Biogeography and Diversity, and (4) Physical and Geographical Geology.

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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>EESB05</td>
<td>Introductory Mineralogy</td>
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<tr>
<td>EESB08</td>
<td>Optical Mineralogy</td>
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<tr>
<td>MATB141F</td>
<td>Techniques of the Calculus of Several Variables I</td>
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<tr>
<td>Third year:</td>
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<tr>
<td>CEMB54Y</td>
<td>Organic Chemistry I</td>
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<tr>
<td>GLG332F</td>
<td>Structural Geology</td>
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<tr>
<td>GLG336F</td>
<td>Petrology I</td>
</tr>
<tr>
<td>GLG408S</td>
<td>Petrology II</td>
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<tr>
<td>GLG408H</td>
<td>Environmental Geochemical Analysis</td>
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<tr>
<td>EESB04F</td>
<td>Hydrology: Measurement, Estimation and Forecasting</td>
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<tr>
<td>EESD15S</td>
<td>Hydrology: Physical Processes and Modelling</td>
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<td>Fourth year:</td>
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<td>CBMC2ZM</td>
<td>Physical Environmental Chemistry</td>
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<td>or</td>
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<td>CBMC53H</td>
<td>Inorganic Environmental Chemistry</td>
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<td>EESC07F</td>
<td>Exploration Techniques in Hydrogeology</td>
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<tr>
<td>EESC12F</td>
<td>Glacial &amp; Periglacial Geology</td>
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<tr>
<td>EESD05S</td>
<td>Contaminant Hydrogeology</td>
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<tr>
<td>EESD07F</td>
<td>Field Camp II</td>
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<tr>
<td>PCSD01F</td>
<td>The Physical Sciences in Contemporary Society</td>
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<tr>
<td>Specialised Programme in Terrestrial and Environmental Earth Sciences (TEE9): Refer to Environmental Earth Science Specialised Programme</td>
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<tr>
<td>Specialised Programme in Physical Geography: Refer to Environmental Science Specialist Programs</td>
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<tr>
<td>Specialised Programme in Mathematics: Refer to Introduction to Mathematics and Statistics</td>
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<td>BREAD51</td>
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<td>EESA04S</td>
<td>General Chemistry</td>
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<tr>
<td>EENA05F</td>
<td>Earth Science and Environmental Systems Through Time</td>
</tr>
<tr>
<td>MATA26Y</td>
<td>Calculus</td>
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<tr>
<td>PHTA15F</td>
<td>Principles of Physics*</td>
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<td>Second year:</td>
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<tr>
<td>CMB11Y</td>
<td>Analytical Chemistry I</td>
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<tr>
<td>CMB22Y</td>
<td>Physical Chemistry I</td>
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<td>EESB01F</td>
<td>Understanding Ancient Environments and Sedimentology and Soils</td>
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<td>EESB26F</td>
<td>General Geomorphology</td>
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<td>EESB06S</td>
<td>Field Camp I</td>
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<td>First or second year:</td>
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<tr>
<td>CMB54Y</td>
<td>Geology I</td>
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<tr>
<td>MATB31F</td>
<td>Algebra I</td>
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<tr>
<td>MATB32S</td>
<td>Algebra II</td>
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<tr>
<td>MATB41F</td>
<td>Techniques of the Calculus of Several Variables I</td>
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<tr>
<td>MATB42S</td>
<td>Techniques of the Calculus of Several Variables II</td>
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<tr>
<td>MATB43S</td>
<td>Introduction to Analysis</td>
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<tr>
<td>STAB22F</td>
<td>Statistics</td>
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<tr>
<td>one of: CSCI55S, PHYB21S, STAB47S</td>
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<td>Third year:</td>
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<td>MATC49F</td>
<td>Galois Theory</td>
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<tr>
<td>MATC51F</td>
<td>Differential Equations I</td>
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<td>MATC55S</td>
<td>Differential Equations II</td>
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<tr>
<td>MATC53Y</td>
<td>Real Analysis</td>
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<td>or</td>
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<tr>
<td>MATC60F</td>
<td>MATC65S</td>
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<tr>
<td>three of:</td>
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<tr>
<td>MATB70S, C305, C31F, C32F, C34F</td>
<td>Any additional CRC 0.5 F.C.E.</td>
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<td>or</td>
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<tr>
<td>Any additional STA 0.5 F.C.E.</td>
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<tr>
<td>Fourth year:</td>
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<tr>
<td>MATC53Y or MATC00F and MATC55S: Refer to Environmental Science Specialist Programs</td>
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<tr>
<td>Specialised Programme in Mathematics: Refer to Introduction to Mathematics and Statistics</td>
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<tr>
<td>Supervisor:</td>
<td></td>
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<tr>
<td>E. Moore (287-7267)</td>
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<td>First year:</td>
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<tr>
<td>CSCI55F, CSCI51S, MATB70S, C305, C31F, C32F, C34F: Refer to Environmental Earth Science Specialised Programme</td>
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<tr>
<td>PSCD01F: The Physical Sciences in Contemporary Society</td>
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<tr>
<td>PSCD05: Current Questions in Mathematics and Science.</td>
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<tr>
<td>*PHTY110 is not an acceptable substitute</td>
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<tr>
<td>Specialised Programme in Mathematics and Statistics: Refer to Introduction to Mathematics and Statistics</td>
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<tr>
<td>Supervisor:</td>
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<tr>
<td>S. Chawla (287-7252)</td>
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<tr>
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<tr>
<td>Specialised Programme in Physical Sciences: Refer to Introduction to Mathematics and Statistics</td>
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<tr>
<td>Supervisor:</td>
<td></td>
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<tr>
<td>C. C. Dyer, M. J. G. Lee</td>
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<tr>
<td>This Programme should be selected in consultation with a faculty advisor.</td>
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<td>First year:</td>
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<td>CSCI55F, CSCI51S, MATB70S, C305, C31F, C32F, C34F: Refer to Environmental Earth Science Specialised Programme</td>
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</tbody>
</table>

**Notes:**
- The first year courses are recommended for students intending to pursue a degree in Earth Science.
- The second year courses are recommended for students intending to pursue a degree in Earth Science.
- The specialisation programmes are offered in both the first and second years.
- The programmes are designed to provide a broad foundation in Earth Science and to prepare students for specialization in one of the following areas: Geology, Geophysics, Environmental Science, or Meteorology.
Second year:

ASTB50F Celestial and Classical Mechanics
CHIM11Y Analytical Chemistry I
CSCE58S Computer Organization
MATH41F Techniques of the Calculus of Several Variables I
MATH42S Techniques of the Calculus of Several Variables II
PHYS21S Electricity and Magnetism
PHYS22H Physics Laboratory

Third year:

ASTC50F Structure and Evolution of Astrophysical Bodies
CHIM22Y Physical Chemistry I
PHYS270F Philosophy of Science
PHYS22S Electronics
PHYS22H Physics Laboratory
PHYS22S Electronics

Fourth year:

ASTC51S Stellar Systems, Galaxies and Cosmology
CHIM33Y Inorganic Chemistry I or
CHIM34Y Organic Chemistry I

Supervisor: A. Verter (287-7224)

It offers the possibility of obtaining an introduction to all of the subdisciplines of chemistry.

Students should complete the following eight courses:

First year:

CHIM20Y General Chemistry
MATH20Y Calculus
PHYS11Y Principles of Physics or
PHYS10F Dynamics of Classical Systems

Second year:

PHYS22H Structure of Matter
PHYS22S Electronics

PHYS22H Physics Laboratory

Second and Third years: (One of the following sets of options must be taken):

Inorganic/Organic

CHIM31Y Analytical Chemistry I
CHIM33Y Inorganic Chemistry I
CHIM35Y Organic Chemistry I
CHIM36S Inorganic Chemistry Laboratory

CHIM40Y Organic Chemistry II

Introduction to Environmental Science

The Major Programme is designed to give students a good background in the basic principles and applications of Environmental Science. It is intended for students with an interest in Environmental Science, who do not intend to specialize in the field. It is appropriate for students pursuing a three-year degree in Environmental Science or those pursuing a four-year degree with more than one area of specialization.

First year:

EED401P Introduction to Environmental Science
EED402F Introduction to Physical Geography
EED405S Life on Earth: Introduction to Earth Science and Environmental Systems

EED410S Dynamics of Classical Systems

Supervisor: J. Piotr (287-7222)

This Programme places a greater emphasis on the physical aspects of chemistry than does the general Chemistry Major Programme. It is offered for students who are primarily interested in chemistry but also want to study the chemistry of living systems.

Students should complete the following seven and one-half courses:

First year:

BIOA03Y Introductory Biology

CHIM40F Techniques of the Calculus of Several Variables I
CHIM41F Techniques of the Calculus of Several Variables II

CHIM42F Techniques of the Calculus of Several Variables III

CHIM43F Techniques of the Calculus of Several Variables IV

MATH42S Techniques of the Calculus of Several Variables II

MATH43S Techniques of the Calculus of Several Variables III

MATH44S Techniques of the Calculus of Several Variables IV

CHIM35F Analytical Chemistry I

CHIM33F Inorganic Chemistry I

CHIM36S Inorganic Chemistry Laboratory
Introduction to Soil Science
Statistics

Introduction to Computing

Discrete Mathematics

Techniques of the Calculus of Several Variables

Techniques of the Calculus of Several Variables II

Statistics

a) 1.0 F.C.E. from:

b) 0.5 F.C.E. from:

c) 0.5 F.C.E. from:
Course list in a) above PLUS 4 above

Introduction to Probability Theory and Mathematical Statistics

Introduction to Computing

Linear Algebra

Calculus

Introduction to Computing

Linear Algebra

Calculus

Introduction to Computing

Linear Algebra

Calculus

File Structures and Data Management

PSC6015 Physical Principles of Modern Technology

The principles of modern technology are rooted in the physical sciences. The electrical properties of semiconducting materials are the foundation of the burgeoning fields of microelectronics and digital computing. The modulation, transmission, and detection of electromagnetic waves are at the heart of the contemporary revolution in communications technology. The principles of thermodynamics set unavoidable constraints on the generation and inter-conversion of energy in its various forms. The goals of this course are to present the physical principles underlying digital, communications, and energy technology, and to examine critically the applications of these technologies in modern society.

Prerequisites: PHY3125, MATH414, MATH423

Comments: PHY3125, PHY323H

PSC6016 The Physical Sciences in Contemporary Society

Consideration of the impact of modern sciences on society, particularly concerned with public policy pertaining to the problems and benefits brought to society with an increasing dependence on science and engineering. Topics will include energy sources and consumption, environmental hazards of resource-based and manufacturing industries, acceptable, safe and peaceful uses of new technologies. Where appropriate, outside guest lecturers will participate in the course.

Prerequisite: Completion of at least one half of the full-course equivalent requirements of the required courses in any one of the Physical Sciences Scarboro Programme.

Corequisite: Continued participation in one of the Physical Sciences Scarboro Programmes.

PSC6025 Current Questions in Mathematics and Science

Topics of current prominence in the physical sciences and mathematics will be discussed, usually by faculty or outside guests who are close to the areas of prominence. Topics will change from year to year as the sciences evolve. An appropriate topic at the present would be, for example, the phenomena of high temperature superconductivity.

Prerequisite: PSC601F

Corequisite: Continued participation in one of the Physical Sciences Scarboro Programmes.

Physics (B.Sc.)

Discipline Representative: M.J.G. Lye

(287-7246)

Physics is the study of the basic laws that describe how material objects move and influence each other. 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 neighbouring atom, or of an atomic nucleus on an electron, may be accurately described in terms of the general laws of physics. 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 electricity and magnetic effects so beautifully synthesized in Maxwell's theory of electromagnetism. From these basic principles many of the properties of gases, liquids, solids, plasmas, and nuclear matter can be understood in terms of 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 and allow us to see, hear, touch, and feel. From the basis of a wide range of applications of the subject, for example, in the field of medicine, where ultrasounds or resonances can be used to detect the presence of a disease in the body, and in the field of engineering, where the properties of materials can be improved and new technologies can be developed. Physics is also used in the field of computer science, where algorithms and computational methods are used to solve complex problems. This allows us to develop new technologies and solve problems that were previously unsolvable. Physics is a fundamental science that helps us understand the world around us and improve our quality of life.
by a laboratory. PHYA01Y - Principles of Physics - is a full year course with a calculator component, which makes greater use of mathematics and gives greater opportunity to develop problem solving skills, while PHYA10F - Dynamics of Classical Systems - and PHYA115 - Electromagnetism and Solid State Devices - are half year courses with no calculator, which together offer a broader coverage of physical concepts and their applications. PHYA10F and PHYA115 are intended primarily for students who are not specialists in the Physical Sciences.

Students wishing to take a full year of physics may choose to take either PHYA01Y or PHYA10F and PHYA115. Students wishing to take a half year of physics may take either PHYA01F or PHYA115.

Please refer to the Physical Sciences section of the Calendar for the following Programmes.

Specialist Programme in Astronomy, Mathematics and Physics

Specialist Programme in Computer Science and Physics

Specialist Programme in Co-op Computer Science and Physical Sciences

Major Programme in Astronomy and Physics

Major Programme in Physics

The Major Programme in Physics is no longer offered. Students currently registered will be allowed to complete it.

PHYA01Y Principles of Physics
Telephone ID #: 24810163
Classical mechanics: potential energy, conservation laws, rotational dynamics, planetary motion, harmonic vibrations, wave equations; Thermodynamics: temperature, heat, ideal gases; Special theory of relativity; Lorentz transformation, relativistic mechanics. E-M1: Electricity and magnetism; Maxwell's equations, electromagnetic waves; Quantum mechanics: Schrödinger's equation in simple systems, lasers, electronic states in metals and semiconductors, the structure of the nucleus.

Two lectures and one tutorial per week, and a three-hour laboratory every second week.

Exclusion: PHYA02Y, PHYA03Y, PHYA10F, PHYA11Y, PHY110/120, 130, 138, 150

PHYA02Y Electromagnetics and Non-Linear Systems
Telephone ID #: 24811039
Non-linear elements including diodes and transistors, rectifiers, simple filters, amplifiers, pulse circuits, operational amplifiers, logic gates, Boolean algebra, digital electronics. Includes a three-hour laboratory every second week.

Exclusion: PHYB01Y
Prerequisite: PHYA10Y or PHYA12Y, PHYA11Y or PHYA12Y, PHYA26

PHYA10F Electronics
Telephone ID #: 24822343
Experiments in circuit theory, basic electricity and magnetism, solid state physics and atomic and nuclear physics. A six-hour laboratory once every two weeks.

Exclusion: PHYB02Y, PHYC01Y
Corerequisite: PHYB21

PHYB01Y Electromagnetism and Solid State Devices
Telephone ID #: 24811553
Electromagnetism: electric fields, capacitance, current and resistance, magnetic fields, Lorentz force, electromagnetic induction, inductance. Alternating Currents: Vibrations and waves, AC circuits, electromagnetic waves, propagation of pulses and diffraction. Solid State Devices: semiconductors, the p-n junction, transistors, feedback, logic gates, bistable devices, binary representation of numbers, arithmetic circuits, solid state storage and magnetic storage of data.

Two lectures and one tutorial per week, and a three-hour laboratory every second week.

Exclusion: PHYA01Y, PHYA02Y, PHY110/120, 130, 138, 150

Prerequisite: OAC Calculus and OAC Algebra or Grade 13 Calculus
Session: Fall Day

A. Jacobi

PHYA115 Electromagnetism and Solid State Devices
Telephone ID #: 24811537
Electromagnetism: electric fields, capacitance, current and resistance, magnetic fields, Lorentz force, electromagnetic induction, inductance. Alternating Currents: Vibrations and waves, AC circuits, electromagnetic waves, propagation of pulses and diffraction. Solid State Devices: semiconductors, the p-n junction, transistors, feedback, logic gates, bistable devices, binary representation of numbers, arithmetic circuits, solid state storage and magnetic storage of data.

Two lectures and one tutorial per week, and a three-hour laboratory every second week.

Exclusion: PHYA01Y, PHYA02Y, PHY110/120, 130, 138, 150

Prerequisite: OAC Calculus and OAC Algebra or Grade 13 Calculus
Session: Fall Day

S. Quick

PHYB125 Electricity and Magnetism
Telephone ID #: 24822153
Coulomb's law, electric fields, Gauss' law, electric potential, capacitance, dielectrics, magnetic force and fields, inductance, magnetization, Faraday's law, displacement current, Maxwell's equations.

Exclusion: PHYB01Y
Prerequisite: PHYA01Y, MATB41

J. Perc

PHYB22F Electronics
Telephone ID #: 24822233
Non-linear elements including diodes and transistors, rectifiers, simple filters, amplifiers, pulse circuits, operational amplifiers, logic gates, Boolean algebra, digital electronics. Includes a three-hour laboratory every second week.

Exclusion: PHYB01Y
Prerequisite: PHYA10Y or PHYA12Y, PHYA11Y or PHYA12Y, PHYA26

S. Quick

PHYB23H Physics Laboratory
Telephone ID #: 24823345
Experiments in circuit theory, basic electricity and magnetism, solid state physics and atomic and nuclear physics. A six-hour laboratory once every two weeks.

Exclusion: PHYB02Y, PHYC01Y
Corerequisite: PHYB21
M. H. Lee and G. Lorent

PHYC21F Classical and Quantum Waves
Telephone ID #: 24821333
Harmonic motion, driven, damped and coupled oscillators: standing and running waves; interference and diffraction; normal modes; wavefunctions in quantum theory; wave-particle duality; de Broglie matter waves; wave mechanics of 1-dimensional systems.

Prerequisite: PHYB21; MATB42
This is a computer based course. Lectures and assignments use MAPLE, the symbolic programming language.

P. O'Donnell

PHYC22S Structure of Matter
Telephone ID #: 24822525
Introduction to the quantum description of electromagnetic properties of molecules and solids (including semiconductors and superconductors); mathematical physics of elementary particles and structure of nuclei, nuclear power. Course includes discussion of Fermi and Bose statistical distributions.

Prerequisite: PHYC21

P. O'Donnell

Political Science

B.A.

Discipline Representative: R. Mazer (287-7307)

Political Science consists of a variety of approaches to the study of politics. Politics in the process of attempting to resolve conflicts among competing interests and values, and over how societal resources will be allocated. The discipline includes not only the study of politics and arrangements created to facilitate non-violent resolution of conflict at the level of the nation state, but also the study of political processes in other states of the world by means by which a group may enhance its power (that is, in its ability to have its views and interests implemented) from the level of the municipality to the international realm.

Political Science is divided into the following fields: Canadian government, comparative politics (industrial countries), comparative politics (developing countries), public administration and public policy, international relations, and political theory. In the study of Canadian Government students will become familiar with the process and structures of decision making in Canada. Public Administration deals with the institutions or organizational structures through which public policies are implemented. Courses in Comparative Politics focus on the political practices and policies of a wide variety of nations and thus broaden the student's awareness of foreign political systems. International Relations is devoted to the analysis of the foreign policies of various nation states and of the relations amongst nation states.

Political Theory explores the reasons advanced for various political doctrines and policies; that is, it attempts to clarify the class of politics in relation to various conceptions of the "quality of life".

Levels of courses range from A to D; the lettering corresponds to increasing degrees of concentration and difficulty of subject matter. Note: Non-violent action course assumes a strong background in political science and social justice. Economics, geography, history, philosophy, sociology, students are advised to consult the instructors of D-level courses for a preview of Studies prior to enrolling in them.

Students who are enrolled in a Political Science programme are advised to consult the Supervisor of Studies prior to registration each year for information about which courses being offered in the coming academic year may not be offered in the following academic year, and then shall select their selection of courses accordingly. In limited enrolment courses, priority is given to students who have completed the course required in a given year of a programme. Students will be informed prior to the end of classes in April on how to apply to limited enrolment courses. Students should consult the Supervisor of Studies about procedures.

Prerequisite: Because appropriate academic preparation for advanced work in
political science can vary greatly from one course to another, specific prerequisites are not always stated for higher-level courses. Where prerequisites are stated, they will be strictly enforced. Students who knowingly or unwittingly register for courses for which they do not have the necessary prerequisites will be denied access to those courses.

Specialist Programme in Political Science
Supervisor: D. Walsh (287-7588)
Note: Registration in this Programme is limited.
Applications for admission to the Specialist Programme are accepted after students have completed at least four full-course equivalents (i.e., generally after completing the first year of the degree program). Applicants must have completed POL 1050. Students will be selected to enter the second year of the program on the basis of their GPA for those four courses taken to date (including POL 1050) in which their grades are highest. Students wishing to register at a later date may be admitted at the discretion of the Supervisor.
Students must complete ten full-course equivalents in Political Science, at least three of which must be at the C or D level. The courses must be approved by the Supervisor and must include the following:
1. POL 1050 Introduction to Canadian Politics
2. Political Theory courses POL 1070 and POL 1074.
3. One full course each of any three of the following fields:
   C. International Relations: POL 1066, POL 1067, POL 1068, POL 1069, POL 1070.
   D. Comparative Politics, Industrial Countries: POL 1071, POL 1072, POL 1073.
   E. Comparative Politics, Developing Countries: POL 1074, POL 1075, POL 1076.

Minor Programme in Political Science
Supervisor: D. Walsh (287-7588)
The Programme requires the completion of at least four full-course equivalents in Political Science. At least two of these must be at the C level. There are two options: either the four full-course equivalents must be taken from any one of the fields listed below (e.g., all four in Canadian Government), or two full-course equivalents must be taken from each of any two of these fields (e.g. two courses in International Relations, plus two courses in Comparative Politics-Developing Countries).

A. Canadian Government: POL 1051, POL 1055, POL 1059, POL 1052, POL 1053, POL 1051
C. International Relations: POL 1066, POL 1067, POL 1068, POL 1069, POL 1070.
D. Comparative Politics, Industrial Countries: POL 1071, POL 1072, POL 1073.
E. Comparative Politics, Developing Countries: POL 1074, POL 1075, POL 1076.

Political Science 185

POL 1050 Introduction to Canadian Politics (2 credits)
This course is designed to provide an introduction to the political system of Canada. It covers topics such as the history of Canadian politics, the federal system, the electoral process, and the role of the government in public policy. The course is taught by Professor John Smith, a well-known political scientist. The course is offered in the fall term and requires a minimum of 40 hours of lecture per week. The course is worth 2 credits.

POL 1060 Public Administration and Public Policy (3 credits)
This course is designed to provide students with an understanding of the principles and practices of public administration and public policy. It covers topics such as the role of government in society, the role of the public sector, and the role of public policy in shaping society. The course is taught by Professor Jane Doe, a leading public administration expert. The course is offered in the winter term and requires a minimum of 40 hours of lecture per week. The course is worth 3 credits.

POL 1070 International Relations (3 credits)
This course is designed to provide students with an understanding of the principles and practices of international relations. It covers topics such as the role of international organizations, the role of international law, and the role of international politics in shaping society. The course is taught by Professor John Brown, a well-known international relations expert. The course is offered in the fall term and requires a minimum of 40 hours of lecture per week. The course is worth 3 credits.

POL 1080 Comparative Politics (3 credits)
This course is designed to provide students with an understanding of the principles and practices of comparative politics. It covers topics such as the role of democracy in society, the role of political institutions, and the role of political parties in shaping society. The course is taught by Professor Jane Doe, a leading comparative politics expert. The course is offered in the winter term and requires a minimum of 40 hours of lecture per week. The course is worth 3 credits.

Specialist Programme in Economics and Political Science (see Economics)

POL 1050 Introduction to Canadian Politics (2 credits)
This course is designed to provide an introduction to the political system of Canada. It covers topics such as the history of Canadian politics, the federal system, the electoral process, and the role of the government in public policy. The course is taught by Professor John Smith, a well-known political scientist. The course is offered in the fall term and requires a minimum of 40 hours of lecture per week. The course is worth 2 credits.

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POL371Y U.S. Government and Politics
Session: Winter Day
A. Rainbow

POL391Y Political Science in the Third World
Phone ID: 25239141
The effects which various Western, especially North American, political and practices have had upon development in the Third World. An overview of development in terms of regional and national factors. The political and social systems of the Third World. The role of the Third World in the international political economy.

POL401Y Canadian Constitution
Session: Winter Day
TBA

POL402Y Canadian Constitution
Session: Winter Day
TBA

POL403Y Canadian Political Environment
Phone ID: 25235333
This course examines the political and legal framework within which Canadian environmental policy is evolving, with due regard for the catalytic role of environmental groups, public opinion, and the court system, and the distinctive contribution to policy development of federalism and Canada's resource-based economy. Class size is limited to 60 per section.

POL441Y Comparative Political Development
Session: Winter Day
G. Miller

POL445Y Comparative Political Development
Phone ID: 25235463
An examination of some of the problems of intergovernmental relations which arise in a federal state and of the governmental machinery which has been developed to deal with these issues. Emphasis on modern Canada.
Class size is limited to 60 per section.

POL463Y Political Science in the Third World
Phone ID: 25235853
An analysis of the methods of analysis used in the empirical study of political science. The purpose of the course is to enable the student to work scientifically through literature to identify underlying values and assumptions, to differentiate good from poor logic, to distinguish between adequate and inadequate use of evidence and between warranted and unwarranted conclusions drawn from that evidence. Special attention will be paid to the questions surrounding the "science of politics."
Class size is limited to 60 per section.

POL541Y Comparative Politics of Industrial Societies
Phone ID: 25235876
A comparative analysis of politics in advanced industrial societies including consideration of the following topics: the interaction among political and bureaucratic elites, interest group representation, the dynamics of the welfare state, and future conditions of post-industrial societies. Organization of the course will depend upon enrolment. Class size is limited to 60 per section.

POL600Y Organized Interests and Public Policy in Canada
Phone ID: 25245953
This course will examine the interrelationships between organized interests and the state in the formulation and implementation of public policy in Canada. A focus of concern is the impact of the organization of the state on the structure, functioning, and influence of organized interests. In turn, the capacity of the state to undertake independent policy initiatives and to work in concert with organized interests is also examined. Class size is limited to 20 per section.

POL680Y European Politics
Phone ID: 25238463
An examination of the most important political events within Europe's foreign policy since 1945 and a consideration of the issues and the influences which have determined that policy. Class size is limited to 60 per section.

POL680Y European Politics
Phone ID: 25238463
An examination of the most important political events within Europe's foreign policy since 1945 and a consideration of the issues and the influences which have determined that policy. Class size is limited to 60 per section.

POL70Y American Foreign Policy
Phone ID: 25238463
An examination of the foreign policy of the United States by looking at the tradition and context of American decision-making, the process by which it is formulated, and its application to a number of specific regions and problems in the world. Class size is limited to 60 per section.

POL70Y American Foreign Policy
Phone ID: 25238463
An examination of the foreign policy of the United States by looking at the tradition and context of American decision-making, the process by which it is formulated, and its application to a number of specific regions and problems in the world. Class size is limited to 60 per section.

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Psychology

(B.Sc.)

Associate Chair: T.M.A.

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 reason and intuition. Psychology uses the methods of scientific enquiry to address the question.

The areas of interest encompassed by the discipline of psychology include: how organisms perceive their environments; how they learn, adapt, and remember; how they change over their lifetimes; how they choose among alternate courses of action; how they respond to motivating forces; how they are affected by the presence of other organisms in social settings; how their behaviour relates to their physiological functions; and how individuals and species differ from one another. 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 Programme in Psychology includes courses from each of the main sub-areas within the discipline. This Programme is intended both for students with a strong interest in the field and for those who wish to pursue graduate work in psychology after the first degree. Students considering graduate study should plan to include the thesis course (PSY3688Y) in their undergraduate programme.

The Major Programme in Psychology is designed to introduce students to the main areas within the discipline. The Major Programme is designed for students who are interested in a less intensive exposure to the field. Often, students desire to concentrate these studies in two areas, in which case a double Major Programme combining psychology with another discipline is ideal.

Students particularly interested in the relation of brain to behaviour should consider the Specialist or Major Programme in Neuroscience described earlier in this catalogue. Those particularly interested in the study of knowledge - language, communications and thought - may wish to consider the Major and Specialist Programmes in Cognitive Science described earlier.

Planning your Programme 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. As two examples, it is recommended that PSY3070Y and PSYC8167Y be taken consecutively in the two terms of second year and that the same be done with PSY3608Y and PSYC6165Y. Students should be aware that with the exception of PSY3070Y and 2006, all other courses in the Faculty of Arts and Science correspond to B, C or D-level and all 400 series are 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 Supervisor of Studies can be very valuable in this regard.

Specialist Programme in Psychology

Supervisor: M. Schmidtko (office SS51)

The Programme requires completion of 12.5 full-course equivalents, and fulfills the Programme requirements for the 4-year B.Sc. degree in Psychology.

A. 10.5 full-course equivalents in Psychology, as follows:

1. PSY101Y Introduction to Psychology (1 full-course equivalent)
2. Statistical Methods (1 full-course equivalent)
   (a) PSY1070Y Data Analysis in Psychology and
   (b) PSY1080Y Experimental Design in Psychology
3. 1 Laboratory Methods (1 full-course equivalent)

B. (a) PSY1010Y Psychological

and

(b) one half-course (0.5 full-course equivalent) from among the following:

PSYC1170Y Social Psychology

Laboratory

PSYC2205 Developmental

Psychology Laboratory

PSYC2410 Cognitive

Methods Laboratory

PSYC2510 Experimental

Psychology Laboratory

PSYC3075Y Psychophysiology

Laboratory

*NOTE: Students selecting PSYC670Y also receive 0.5 course
4 Courses at the B-level and/or C-level (1.5 full-course equivalents)

Students are required to take one full-course equivalent at the B-level and/or C-level from each of the three content areas listed below:
(a) Social, Developmental and Personality courses (listed in the 50- and 60-series);
(b) Learning and Psychology courses (listed in the 40- and 60-series);
(c) Perception, Language, and Cognition courses (listed in the 50-series).

5 Course at the D-level (1.5 full-course equivalent)

Students must choose one half-course (1.5 full-course equivalent) from the D-level offerings in Psychology.

6 Additional courses in Psychology (2 full-course equivalents)

Students must choose 2 further full-course equivalents from any of the remaining courses in Psychology. At least one full-course equivalent from these must be at the C- or D-level.

Minor Programme in Psychology
Supervisor: M. Schmackler (office 5515)
The programme requires completion of 4.0 full-course equivalents in Psychology, at least one full-course equivalent to be at the C- or D-level.

1 PSY1501 Introduction to Psychology (1 full-course equivalent)

2 PSY1501/PSY1505 Psychological Research Laboratory (1.5 full-course equivalent)

3 PSY1507/PSY1508/PSY1509 Data Analysis in Psychology (1.5 full-course equivalent)

4 Courses at the B-level and/or C-level (1.5 full-course equivalents)

Students are required to select one half-course (1.5 full-course equivalent) at the B-level and/or C-level from each of the three content areas listed below:
(a) Social, Developmental, and Personality courses (listed in the 50- and 60-series);
(b) Learning and Psychology courses (listed in the 40- and 60-series);
(c) Perception, Language, and Cognition courses (listed in the 50-series).

5 Course at the D-level (1.5 full-course equivalent)

Students must choose one half-course (1.5 full-course equivalent) from the D-level offerings in Psychology.

6 Additional courses in Psychology (2 full-course equivalents)

Students must choose 2 further full-course equivalents from any of the remaining courses in Psychology. At least one full-course equivalent from these must be at the C- or D-level.

PSY1501 Introduction to Psychology

The basic principles and methods of contemporary psychology, emphasizing their contribution to an understanding of how organisms, both human and non-human, perceive their environments, how their behaviour is moulded by experience, and how their activities are instigated, sustained, and directed.

The physiological basis of behaviour, particularly the functioning of the nervous system; learning and the importance of past experience in behaviour; perceiving, thinking, and reasoning; intelligence; language, motivation and emotion; social behaviour; personality; and abnormalities of behaviour and experience.

Exclusions: PSY1001, PSY2001

Session: Summer Evening, Winter Day

The Faculty

PSY1501 Psychological Research Laboratory

The intent is to present the principles of the scientific method as they apply to experimental psychology. Using examples from a variety of research areas in Psychology, the development of research projects in psychology will be described.

The nature of hypothesis testing through the design of experiments provides the nucleus of the course. Out of this grows discussion of issues important in planning and conducting research; generating research problems, experimental control, sampling of subjects, data collection, analysis, interpretation and evaluation of results, theory construction, and preparation of the research report. The social psychology of the experiment and ethical issues in research will also be considered.

Topics will survey the entire range of psychological research, using examples from classic and contemporary research. Students are encouraged to become familiar with the basic skills necessary to make the research process.

Exclusions: PSY1501

Session: Summer Evening, Winter Evening

G. Biederman

PSY1507 Data Analysis in Psychology

Telephone ID: 25720713

This introduction to statistics for psychology students will cover the development and use of the basic formulae and applications of the regression technique. Basic statistical concepts will be emphasized, with an emphasis on using data to make decisions in research settings.
PSYB05 Personality

Psychology 193

PSYB050 Personality

An introduction to some of the influential theories of personality and the research which they have guided. Specific theories covered vary from year to year. A typical selection might include behavioural psychology, cognitive psychology and artificial intelligence, psychodynamics, and transpersonal psychology.

The aim of this course is to acquaint the student with the diversity of theoretical approaches and research methods with which basic questions about human nature have been approached. Readings are from primary sources.

Exclusion: PSY205H
Pre-requisite: PSYB01
Session: Winter Day
A. Kafka

PSYB055 Abnormal Psychology

Telephone ID #: 25725233

Definition and identification of abnormality, historical-cultural influences on attitudes, practices, theories, and research, a variety of past and current viewpoints in the development of hypotheses, model, and theory, including genetic, physiological, stress, medical-psychiatric, psychosocial, learning, and sociological classification systems, including problems in their reliability and validity; description of a variety of anxiety, phobias, and other psychological disorders of adults and children, including cognitive, emotional, anxiety, perceptual, psychomotor, and motor abnormalities; methods of investigation, and findings in psychological, psychophysiological, genetic, and epidemiological research; management, control, and modification of abnormal behavior within and outside institutions, including pharmacological, psychodynamic, behavioral, and social engineering approaches.

Exclusion: PSYB01H
Pre-requisite: PSYB01
Session: Winter Evening
S. Zeldin

PSYB455 Behaviour Modification: Origins and Applications

Telephone ID #: 25724533

A survey of attempts to understand and regulate human behaviour in non-laboratory settings, founded primarily on studies from the learning and conditioning laboratory. A critical analysis of current applications and systems of behaviour modification and control.

Exclusion: PSYB01H
Pre-requisite: PSYB01
Session: Winter Day
A. Kennedy

PSYB251B Memory and Cognition

Telephone ID #: 25725233

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.

Three lecture hours per week.
Exclusion: PSYB250, PSYB27H
Pre-requisite: PSYB01
Complementary: PSYB01
Session: Summer Evening, Winter Day
C. MacLeod

PSYB265 Brain Mechanisms and Behaviour

Telephone ID #: 25725033

The relation between behavior and the structure and function of the nervous system. Topics covered include: neuroanatomy, structure and function of neurons, neurochemistry and neural mechanisms and movement.

The objective is to give the student a firm grasp of the structure and function of the nervous system and its role in the behavior of an organism. Neuroanatomy, structure and function of neurons, neurochemistry, and neural mechanisms of sensation and movement.

Three hours of lecture and two hours of lab per week.
Exclusion: PSYB201
Pre-requisite: PSYB01, PSYB06 is recommended for students with no Biology background.
Session: Winter Day
K. Mitter

PSYB265 Human Brain and Behaviour

Telephone ID #: 25725033

An examination of the neurological basis of human behaviour, as an introduction to human neuropsychology.

The course focuses on the following: higher brain function in humans: hemispheric specialization, neuropsychology of speech, disorders of the central nervous system (multiple sclerosis, epilepsy, organic brain damage, strokes, Alzheimer's disease, frontal lobe syndromes, neglect, and speech disorders); psychopharmacology and the biological basis of psychiatric disorders.

Three hours of lecture per week.
Pre-requisite: PSYB01
Session: Winter Day
T. Perl

PSYB050 Experimental Design in Psychology

Telephone ID #: 25735035

The analysis of variance as a research tool and the rationale of design of experiments. Application to a variety of experimental designs: simple randomized, repeated measures, factorial. Additional topics discussed include: homogeneity of variance, multiple comparisons, trend analysis.

The course extends the range of techniques examined in PSYB07. Procedures are considered which permit the analysis and interpretation of data from complex experiments involving the simultaneous manipulation of several independent variables. The course is highly recommended for all students contemplating supervised individual research in Psychology.

Three hours of lecture and one hour of tutorial per week.
Exclusion: STAC52, PSYB201
Pre-requisite: PSYB07, (HUBUBA) or STAB22 or STAB47 plus one additional B-level basic course in PSY.
Session: Winter Day
B. Ferris

PSYB100 Social Psychology Laboratory

Telephone ID #: 25731123

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 social interaction).

Discussion and laboratory work. Limited entrance only.
Exclusion: PSYB291
Pre-requisite: PSYB01, PSYB07, PSYB10 Session: Winter Evening
K. Don

PSYB125 Advanced Social Psychology

Telephone ID #: 25731223

A detailed examination of selected social psychological topics introduced in PSYB10.

The course aims to play a central role in our social lives. This course examines the nature of attitudes, their development, organization and change. Practical issues
such as the measurement of attitudes and the relationship between attitudes and behaviour will be covered. In addition, the course examines belief systems and their manifestation in political and moral ideologies.

Teaching method: lectures. Exclusion: PSY220H
Prerequisite: PSY307, PSY310 plus one additional B-level half-course in PSY
Session: Winter Day
J. Barilli

PSY205 Psychological Development Laboratory
Telephone ID #: 257312653
This course introduces conceptual and practical issues concerning research in psychological development, providing experience with different types of psychological research methodologies. 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. These methods include techniques for studying infants' behaviour (habituation, operant conditioning procedures) as well as procedures for studying development in children, adolescents, and adults (such as the Piagetian interview method, behavioral observation, questionnaires).
This course will cover a representative sample of some of these approaches. Also, consideration of issues concerning research design as it applies to developmental issues will be included. Limited enrolment: 24
Exclusion: PSY202
Prerequisites: PSY301, PSY307, PSY320
Session: Winter Day
M. Schmuckler

PSY245 Psychometric Methods Laboratory
Telephone ID #: 25734345
An intensive exploration by means of lectures and workshops of the principles and methods underlying the construction of psychological tests, the interpretation of the scores they yield, and the assessment of their worth as diagnostic and predictive devices in educational, industrial and clinical settings. Discussion by reference to a wide variety of measures of talent, interest, and character.
The course focuses upon testing rather than upon tests. It seeks to apply those psychometric skills broadly applicable to the range of assessment instruments. It does not take as a significant objective the development of skill in the administration and scoring of particular tests.
Limited enrolment: 25
Exclusion: PSY330H
Prerequisite: PSY301, PSY307 (or equivalent)
Session: Winter Day
R. Forfar

PSY425 Learning Laboratory
Telephone ID #: 25734253
Critical review of basic theories and issues in the psychology of learning, with selected laboratory exercises in animal learning. An introduction to problems and techniques in the study of the acquisition of behavioral topics including: reinforcement, motivation, classical and instrumental conditioning principles, theory construction.
The course provides theoretical and empirical experience relevant to basic concepts and current problems in learning and motivation.
Exclusions: PSY260Y, PSY359H, PSY360Y
Prerequisite: PSY304, PSY307 (or equivalent)
Session: Winter Day
G. Bodenman

PSY465 Applied Psychology of Learning
Telephone ID #: 25734653
The purpose of this course is to present principles of scientific psychology in relation to selected areas in the applied psychology literature and to review the logic and validity of modern applied learning techniques and measurement strategies in these areas: e.g., remediation strategies in atypical subject populations (e.g., autism, MR, learning disabled). Cognitive, Piagetian, and operant approaches will be considered, with the emphasis on the experimental literature rather than on teaching.
Course emphasizes critical evaluation of the literature and will have essay assignments and one major paper as a course requirement.
Exclusions: PSY301, PSY307, PSY45, PSY554 and PSY5542 also recommended.
Session: Winter Day
G. Bodenman

PSY450 Cognition and Representation
Telephone ID #: 25735045
Recent theories of perception and representation relevant to skill in the use of pictures and language. Topics may include making and interpreting gestures, recognizing cross-modal equivalence, learning how to draw and symbolize in vision and touch, and the effects of blindness on the development of skills with patterns normally found in vision and audition. The research to be considered will emphasize studies on the blind, and child development.
Teaching method includes lectures and student presentation.
Exclusions: PSY307, a PSY202-series or a PSY210-series half-course in PSY
Session: Winter Evening
J. Kennedy

PSY365B Experimental Psychology
Telephone ID #: 25735653
This laboratory course emphasizes the use of microcomputers in preparing, controlling, and analyzing experiments. Students will learn a simple programming language, and will have considerable "hands-on" experience with laboratory microcomputers. The aim is to develop the skills necessary to program experiments in psychology, with particular emphasis on research in cognition.
The teaching method will consist of lectures on using the computer as a tool for psychological research, and lectures on the programming language. No previous computer experience is expected or required.
Limited enrolment: 20
Exclusion: PSY208H and any course in Computer Science
Prerequisite: PSY305, PSY307 (or equivalent)
Session: Winter Day
C. MacLeod

PSY361 Brain Mechanisms and Behavior 3
Telephone ID #: 25736153
A continuation of PSY360, emphasizing interpretation and testing. 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: physiological processes and memory, structural basis of learning and memory, biochemistry and memory.
Three hours of lecture per week.
Exclusion: PSY208H
Prerequisites: PSY200, plus one of the following half-courses in PSY: PSY300 and PSY307 or PSY40 are recommended.
Session: Winter Day
N. Milgram

PSY405B Physiological Psychology
Telephone ID #: 25736563
In a variety of techniques used in investigations of nervous system function.

The course is mainly intended for students who are pursuing a Specialist Programme in the Neurosciences. The procedures covered may include: (i) histology (preparing, cutting and staining neural tissue); (ii) lesioning specific regions of the central nervous system; (iii) behavioural techniques; (iv) electrical stimulation of the brain; (v) electrophysiological recording techniques.
Two hours of lecture and three hours of scheduled laboratory work per week. Students will also be required to spend additional hours working in the student laboratory. The course involves a series of laboratory projects.
Exclusion: PSY209H
Prerequisite: PSY300 and permission of instructor
Co-requisites: PSY260Y, PSY261, PSY307 and PSY308 are recommended.
Session: Winter Day
T. Petrielli, Mendelson

PSY465B Sensory Systems
Telephone ID #: 25736453
This course will focus on the mechanisms by which the nervous system processes sensory information.
The topics covered include sensory transduction and the sensory physiology for each of the sensory systems (olfaction, visual, somatosensory, auditory, vestibular, taste), and models of sensory processing.
Three hours of lecture per week.
Prerequisite: PSY200
Session: Winter Day
N. Milgram

PSY460B Synaptic Organization of the Brain
Telephone ID #: 25736953
A course in which the synaptic organization of the brain will be studied in detail, going through all of the major structures of the central nervous system. Neuronal morphology, connectivity, inhibition and excitation, neurotransmitter and neuroreceptor systems will be discussed. Similitudes in circuitry between seemingly diverse structures as the olfactory bulb and cerebellum will be examined.
One two-hour lecture per week.
Prerequisites: PSY200
Session: Winter Day
G. Y. G."
The emphasis of the course is on developing sophistication in the techniques of theoretical analysis. The aim is to enable the student to read and relate the current literature in theoretical psychology. Exclusions: PSY100H
Prerequisite: PSY800H or permission of instructor
Session: Winter Evening
A. Kadha

PSY105F History of Psychology
Telephone ID #: 2574035
A survey of developments in Western philosophy and science which influenced the emergence of modern psychology in the second half of the Nineteenth Century. Twentieth Century schools of psychology are discussed, including functionalism, structuralism, Gestaltism, phenomenology, behaviourism and cognitivism. The course is designed for students who want to integrate their knowledge of the different areas of psychology and start good preparation for graduate school. This course examines changes in the treatment of three basic problems: mind-body, epistemology (the science of knowledge) and behaviour ethics. We begin with the ancient Greek philosophers who established the foundations of Western thought and science. The contributions of European philosophers and scientists (both physical and natural) from the Fiftieth through Nineteenth Centuries are then discussed. Topics also considered include: the process of paradoxes or theory change in science and the relative contributions of indigenous origin and intellectual climate to scientific developments. Limited enrolment: 25. Exclusion: PSY100H
Prerequisite: Two 3- or 4-credit courses in Psychology
Session: Winter Day
G. Capelot

PSY105FPS/PSY105FPS Supervised Study in Psychology
A reading or research project. These courses provide an opportunity to investigate an area in depth after completing basic coverage in regularly scheduled courses. They are not intended as substitutes for advanced courses in fields where these are available. The student must demonstrate a background adequate for the project proposed and be able to present a clear rationale to prospective supervisors.

PSY105FPR/B 105FPR/B Psychology of Gender
Telephone ID #: 25741835
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 to be considered, such as gender-role socialization. Teaching method: seminar. Limited enrolment: 20. Exclusion: PSY105H
Prerequisite: PSY105H plus another C-level half-course in PSY
Session: Winter Day
M. Smith

PSY205F/105F/205F/105F Psychological and the Law
Telephone ID #: 25743533
The course will focus on the application of psychology to the law, particularly the psychological and philosophical problems which influence the giving of testimony. Limited enrolment: 20. Exclusion: PSY105H
Prerequisite: A 55-series half-course plus one C-level half-course in PSY
Session: Winter Day
M. Smith

PSY210F Neuroplasticity: Mechanisms and Function
Telephone ID #: 25746233
Neuroplasticity refers to the modification of neural tissue in response to experience which provides the foundation for learning, memory, and other complex mental processes. This course will explore the mechanisms underlying neuroplastic change and its functional significance. There are two major goals: (1) to survey and critically discuss the most important contemporary research on neuropsychological processes; (2) to provide the necessary background so that students are capable of giving a sophisticated answer to the question of what changes occur in the nervous system during learning and memory and what mechanisms underlie these changes. Limited enrolment: 20. Prerequisite: PSYB30, PSYC61
Session: Winter Day
N.W. Milgram

PSY215F Psychobiology of Aging
Telephone ID #: 25743832
Aging is a complex biological phenomenon which is a universal and inevitable fact of life. 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 the characteristics of several age-related disease states and evaluate the validity of current theories and experimental models of aging. Two hours of lecture per week. Limited enrolment: 20. Prerequisite: PSY100H
Corequisite: PSYC61
Session: Winter Evening
G. Ivy

PSY216F Current Topics in Theoretical Psychology
Telephone ID #: 25748035
An intensive examination of selected issues in theoretical psychology. The specific
content will vary from year to year. Limited enrollment: 20
Prerequisite: PSTC02
Session: Winter Day
A. Kudla

PSY358F Thesis in Psychology
Telephone: 352-72986
This course offers the opportunity to engage in a year-long research project under the supervision of an interested faculty member in psychology. The project will culminate in a written report in the form of a thesis and a defense of that report. 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 will meet as a group with the coordinator as well as individually with the supervisor. This course is recommended to qualified Specialists in Psychology. Students planning to pursue graduate study are especially encouraged to enroll in the course. Before enrolling, students must obtain the signature of their intended supervisor.
Exclusion: NIROD, PSY400T
Prerequisite: PST301, PST307, PSY308, Psychology Specialist
Session: Winter Day
Co-ordinator: M. Smith

Courses Not Offered in 1996/97

PSYC02F Scientific Communication in Psychology
Prerequisite: PSY301, PSY307, PSY308

PSYC21F Advanced Developmental Psychology
Exclusion: PSY210Y
Prerequisite: PSY202 plus completion of second half course in PSY

PLUG24S Developmental Psycholinguistics
Exclusion: JLPG24S, JLPS15H
Prerequisite: One PCE in LIN and PSY201

PLUG55F Psycholinguistics
Exclusion: PLUG355S, JLPS37H
Prerequisite: One full-course equivalent in LIN and PSY201

PSYD20S Current Topics in Developmental Psychology
Exclusion: PSY310Y/101
Prerequisite: PSY212 and PLGC14 (PSY201) or PSY210 plus one C level half course

in PSY

PSY340S Russian Intelligence
Prerequisite: PSY301 and PSY307, PSY308

PLUG55F Disorders of Speech and Language
Exclusion: JLPS37H
Prerequisite: One full-course equivalent in LIN and one full-course equivalent in PSY, and one C level full-course equivalent in LIN, PSY or PLG

PSY358F Current Topics in Physiological Psychology
Exclusion: PSY358
Prerequisite: PSY301

Russian

Discipline Representative: C. V. Popomareff (287-7166)
A millennium has shaped Russia's destiny. Today she is a major world power. It is especially important for us to understand her culture and historical and cultural impact on Western society. Interested students should consider the courses listed below. Elementary and intermediate courses in language are currently not offered, but students with a reasonable knowledge of the language may read the texts in the original.

RUM364F/RUM364S Russian Shorter Fiction of the 19th and 20th Centuries

Hum367F/Rum367S Russian Culture

Hum368Y The Modernist Adventure

Hum344Y Disaster and the Literary Imagination

Hum346Y The Individual and the Totalitarian State

Hum369Y The Russian Twentieth Century

Hum352Y Russian Novel, 1830-1880

Hum353Y Beyond Nationalism: Visions of Renewal

RUSC02H/RUSC02Y

RUSC04H/RUSC04Y

RUSC06H

Supervised Reading

Supervised reading courses are designed for individual students who wish to pursue specific lines of interest in Russian language and/or literature. Classes meet every other week and students are expected to write a research paper or examination on their selected topic. Prerequisite: At least two years of Russian language or permission of instructor.

Sociology

(B.A.)

Discipline Representative: A. Sevts (287-7292)

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 and how it functions, 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 Programme.

The introductory course, SOC101, is intended to familiarize students with the special theories, methods and questions of sociology as a part of a liberal education. In addition, the SOC201 course provides a minimum background of knowledge about sociology, and hence is a prerequisite to many 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 and provide informal advising. There are no formal requirements for these special areas and they will not be designated in diplomas.

The faculty advisers for special areas of concentration are:

Social Work - Prof. A. Sevts
Urban Studies - Prof. J. Hennigan
Education - Prof. J. Lee

Students are strongly advised to take required courses in Sociology and Specialist Programmes as early in their careers as possible. For example, SOC101, SOC201 and SOC206 should be taken during the second year, and SOC301 during the third year. Failure to do so may lead to timetabling conflicts and could prolong the completion of the programme.

Specialist Programme in Sociology

Supervisor: J. Tanner (287-7292)

The Programme requires completion of ten full-course equivalents as described below. No more than fourteen full-course equivalents in Sociology may be included in a Specialist degree.

1 SOC101Y Introduction to Sociology
2 SOC104Y Methods in Social Research
3 SOC106YS Social Statistics
4 SOC107Y History of Social Thought
5 Two full-course equivalents at B-level in Sociology
6 SOC205Y Contemporary Social Theory
7 One and a half full-course equivalents at C-level
8 One full-course equivalent at D-level
9 One other B or C-level course in Sociology

Major Programme in Sociology

Supervisor: J. Tanner (287-7293)

The Programme requires completion of seven full-course equivalents in Sociology including:

1 SOC101Y Introduction to Sociology
2 SOC104Y Methods in Social Research
3 SOC106YS Social Statistics
4 SOC107Y History of Social Thought
5 Three and a half full-course equivalents in Sociology, at least one and a half of which must be at the C level

Minor Programme in Sociology

Supervisor: J. Tanner (287-7293)

The Programme requires completion of four full-course equivalents in Sociology including:

1 SOC101Y Introduction to Sociology
2 Two full-course equivalents in Sociology, at least one of which must be at the C level

SOC101Y Introduction to Sociology

An introduction to the basic concepts, principles and methods of sociology as a discipline for the study of society. Major topics studied include: the nature of social groups, social processes, culture, socialization, deviant behavior, prejudice, community, stratification, social institutions and social change.
Exclusion: SOC100
Session: Winter Day, Winter Evening

S. Ungar, M. MacKinnon

SOC104Y Methods in Social Research

The course will be divided into three basic units. It will start with a critical overview of the logic and methods of social scientific research. Topics will include the logic of research, research design and causal analysis, and methods of data collection. Once the fundamentals have been covered, an effort will be made to teach students how to "read" and critically evaluate research reports.
Several studies will be examined in detail, and then students will be given the
opportunity to do their own evaluations. The final goal will be to provide some practical
experience in doing research. Using data sets
provided by the instructor, students will be
taught how to interpret tables and to employ data to test hypotheses.
Exclusion: SOC100
Prerequisite: SOC100
Session: Winter
A. Servi, P-C. Hsiau, W. O'Grady
SOCI02Y Structure of Interpersonal Relations
Telephone ID: 28620263
Patients of interaction and influence in interpersonal relations. The course begins
with a consideration of the problem of social order; i.e., how do we constrain individual desires and induce people to act
morally. We will also examine the problems of the "abused", using "Captive Outsider." This will be followed by an examination of
pressure measurement and exchange theories. Special attention will be given to the
role of other persons in "suffering" our behavior, with examples drawn from
research on mental illness and
scapegoating. Other topics include status
and power relations in small groups, social
influence processes, and the social
psychology of class, sex and race relations.
Exclusion: SOC102
Prerequisite: SOC100
Session: Winter
W. Baigie
SOCI03Y History of Social Thought
Telephone ID: 28620263
This course will cover the development of sociological theories within the general
frame of the history of social thought. After
a brief review of the main topics
sociological thought in social philosophy
from classical antiquity to the 19th century,
the emergence of sociology is examined
within the context of critical social and
political changes. Special consideration is
given to the works of Comte, Marx,
Toqueville, Durkheim, Weber, Simmel and
Freud. The significance of their theories for
temporary developments in sociology is
emphasized.
Exclusion: SOC103
Prerequisite: SOC100
Session: Winter
J. A. Le
SOCI04Y Political Sociology
Telephone ID: 28620263
Political Sociology is concerned with
power in its social context. The course will
examine liberal-pluralist and Marxist
conceptions of power, the rise of democracy
and social movements; war and warfare; race
and politics.
Prerequisite: One full-course equivalent in
Sociology
Session: Winter
R. O'Toole
SOCI05Y Urban Sociology
Telephone ID: 28620263
A review of theories of urban genesis and
urban form, interrelationship of
urbanization, industrialization and
modernization, issues in urban living
(housing, transportation, urban renewal,
political, poverty, unemployment, etc.), urban social networks (ethnic and cultural heterogeneity, neighborhood, community and other voluntary associations).
Prerequisite: SOC100
Session: Winter
J. Honein
SOCI06Y Social Statistics
Telephone ID: 28620263
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
informal reader of social research. A
working knowledge of elementary algebra
is required. However, the lecturer will
undertake a brief review of mathematics as
the need arises. This course is intended to
supplement SOC100.
Exclusion: ANT105, ECO101, PSY107, ECON101, SOC101
Prerequisite: SOC100
Session: Winter
J. A. Le
SOCI07Y Social Class and Social Structure
Telephone ID: 28620263
Description and analysis of the nature of
social stratification with emphasis on the
basis of stratification; different theoretical
views concerning stratification; the
structure and function of stratification
systems; social classes and associated
behaviour; social mobility; and class
consciousness.
Exclusion: SOC101
Prerequisite: SOC100
Session: Winter
M. Hammond
and theoretical schools. Students will be expected to develop an informed, critical perspective on current debates within the discipline.
Exclusion: SOC313
Prerequisite: SOCI30Y and one other B-level full-course equivalent in Sociology
Session: Winter Day
M. Hammond
SOC315 Sociology of Law and Law Enforcement
Telephone ID #: 28631153
Studies of existing legal systems, the process of creation of legislation, court interpretation of law, and the law enforcement institutions.
Prerequisite: SOCA01, SOCB18
Session: Winter Day
J. Tanner
SOC316 Sociology of Conflict and Co-operation
Telephone ID #: 28631653
This course examines international conflict and cooperation in the context of global change. Beginning with the nuclear arms race, it explores how technology, economics, population growth, and environmental interactions create dependencies and afford new opportunities for world order. Special attention is given to North-South relations and to climate change.
Prerequisite: SOCA01Y and SOCB04 or SOCB10 or SOCB20, or permission of instructor.
Session: Winter Day
S. Ungar
SOC317 Social Change in the Third World
Telephone ID #: 28631753
Sociological studies of stratification, politics, religion, education, and kinship organizations in countries of Africa, Asia, and Latin America.
Prerequisite: SOCA01, SOCB25 and one and one-half other B-level full-course equivalents in Sociology
Session: Winter Day
J. L. de Latour
SOC318 Sociology of Culture
Telephone ID #: 28631853
This course examines the production and reception of culture in various societies. It focuses attention on various historical and contemporary manifestations of folk, popular, mass and deviant cultures as well as on classic and contemporary art, music and literature.
Exclusion: (SOCI18Y)
Prerequisite: SOCA01, SOCB03 and one other B-level full-course equivalent in Sociology.
Session: Winter Day
R. V. Taylor
SOC326F Sociology of Urban Growth
Telephone ID #: 28632653
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 (political, economic) and the formation and operation of urban social networks.
Prerequisite: SOCB05 and one other B-level full-course equivalent in Sociology
Session: Winter Day
J. Hamington
SOC328F Sociology of Aging
Telephone ID #: 28632853
An examination of the latter stages of the family life cycle, with special reference to the period following middle age, and including social and psychological dimensions of aging, changing roles, departure of children, the significance of retirement, problems of adjustment to aging, the place of the aged person in the modern family, and retirement.
Prerequisite: SOCA01 and one B-level full-course equivalent in Sociology
Session: Winter Day
J. Lee
SOC329F Criminal Behaviour
Telephone ID #: 28633033
An advanced study of the causes and consequences of criminal behaviour, with special emphasis on Canada.
Prerequisite: SOCA01, SOCB18
Session: Winter Day
J. Tanner
SOC335F Environment and Society
Telephone ID #: 28633535
This course looks at the effect of the classical sociology of resources and territory (as in the works of David Innes, E.D. Clark, and the Chicago School), with modern topics in ecology and environmentalism. The course will include empirical research, and theoretical issues, in the relationship of various social systems to their natural environments.
Prerequisite: SOCA01Y and one B-level full-course equivalent in Sociology
Session: Winter Day
J. Hamington
SOC401F Supervised Independent Research
Student research by field methods, survey analysis or library or archival research. Regular supervision of data collection and analysis, culminating in a research report.
Students are advised that they must obtain consent from the supervising instructor before registering for this course.
Prerequisite: Completion of at least fifteen full-course equivalents in Sociology and Sociology
Exclusion: SOC190, SOC391, SOC392
Session: Summer Evening, Winter Day, Water Evening
SOC411 Advanced Seminar in Research Methods
Telephone ID #: 28644353
Special topics in methodologies used in contemporary sociological research. Designed as a final year course for students taking a Specialised Programme in Sociology.
Prerequisite: SOCA01 and SOCB06
Session: Winter Day
S. Ungar
SOC412 Advanced Seminar on Issues in Contemporary Sociology
Telephone ID #: 28644353
This course will explore a number of current issues and controversies which engage the attention of sociologists according to their disciplinary specialisations. It is intended to expose students to the most recent and newly emerging developments and scholarly discussions within the field.
The course is designed as a final year course for students taking a Specialised Programme in Sociology.
Prerequisite: SOC01, two B-level and two C-level full-course equivalents in Sociology
Session: Winter Day
R. O'Toole
Courses Not Offered in 1994-95
SOC601F Sociology of Revolution
Prerequisite: SOCA01, SOCB03 or SOCB04, and one other B-level full-course equivalent in Sociology
SOC602Y
Limit: 12
Prerequisite: SOCA01
SOC605F
Collective Behaviour
Prerequisite: SOCA01, SOCB03 or SOCB04, and one other B-level full-course equivalent in Sociology
SOC607F
Social Movements
Prerequisite: SOCA01, SOCB03 or SOCB04, and one other B-level full-course equivalent in Sociology
Programme operated by the University of Treatment.

Major Programme in Spanish Language

Programme Supervisor: R. Skynne (287-7147)

This programme offers a variety of courses in Spanish language, literature, and culture. Students are encouraged to use the Language Resource Room (R404) and to prepare for advanced study in the fields of language, literature, and culture.

Spanish (B.A.)

Discipline: Representative: R. Skynne (287-7147)

Students enrolled in Spanish are offered a wide range of courses in the Spanish language.

Courses in Humanities, Linguistics, and in other languages and literatures may be taken to fulfill the requirements of a Bachelor of Arts program.

Spanish Literature is offered in the original literary works. Students who wish to study Spanish literature are encouraged to enroll in the Language Resource Room (R404). Spanish Language is a requirement for the Bachelor of Arts program in Spanish.

Spanish Language, Literature, and Culture are required for the Bachelor of Arts program in Spanish.

This course stresses the development of the practical skills of understanding and speaking needed for the Bachelor of Arts program in Spanish. Specially written dialogues are the working basis for both A01 and A02; the textbook is for reference only. Students are encouraged to use the Language Resource Room (R404) to prepare for advanced study in the fields of language, literature, and culture.

Exclusions: Spanish or Grade 13 Spanish. Spanish A010 or Spanish A010A.

Coursework: Spanish A010 or Spanish A010A.

This course stresses the development of the practical skills of understanding and speaking needed for the Bachelor of Arts program in Spanish. Specially written dialogues are the working basis for both A010 and A020; the textbook is for reference only. Students are encouraged to use the Language Resource Room (R404) to prepare for advanced study in the fields of language, literature, and culture.

Exclusions: Spanish or Grade 13 Spanish. Spanish A010 or Spanish A010A.

Coursework: Spanish A010 or Spanish A010A.
See also the following courses offered under Humanities:
HUMB42Y The Modernist Adventure
HUMB455 The Spanish Civil War: Fact to Fiction
HUMC14Y Topics in Latin American Culture and Literature

Courses Not Offered in 1994-95

SPAH125 History of the Spanish Language 1
Exclusion: SPA223
Prerequisite: SPA304
Offered 1995-96

SPAC221 Intermediate Spanish
Exclusion: SPA223
Prerequisite: SPA201
Offered 1995-96

SPAC222 History of the Spanish Language II
Exclusions: SPA222, SPA425
Prerequisite: SPA221
Offered 1995-96

SPAD416Y Spanish Age Drama
Prerequisites: One B-level course equivalent in drama and permission of the Instructor.
Not offered 1995-96

Statistics
(3-6 cr.)

Discipline Representative: S. Iann (287-7274)

Probability and statistics have developed over a period of several hundred years as attempts to quantify uncertainty. With its origins in modeling games of chance, probability theory has become a sophisticated mathematical discipline with applications in such fields as demography, genetics, and physics.

Statistics is concerned with the proper collection and analysis of data, both to reduce uncertainty and to provide a means of assessing the probability. Application range from pre-election polling to the design and analysis of experiments to determine the relative efficiencies of different medications.

STAR122F and STAR475T serve as an introduction to the discipline. The C-level courses build upon the introductory material to provide a deeper understanding of statistical methodology and its practical implications.

Please refer to the Physical Sciences section of the Calendar for the following Programmes.

Specialist Programme in Computer Science and Statistics

Specialist Programme in Co-op Computer Science and Physical Sciences

Specialist Programme in Mathematics and Statistics

Major Programmes in Mathematical Sciences (Statistics)

Major Programme in Statistics
The Major Programme in Statistics is no longer offered. Students currently registered will be allowed to complete it.

STAR220F Statistics
Telephone ID #: (F): 2892223
Telephone ID #: (S): 2892223
This course is an introduction to probability and statistics. The emphasis of the course is on motivation and applications and the treatment is essentially non-mathematical. A statistical computer package is used for most computations; however, no previous experience with a computer is required. The course covers: descriptive statistics, probability, and expectation, correlation and regression, sampling, experimental design and methods of statistical inference. Exclusions: ANTS15, (BBRO25), ECOPB9, ICOP10, ICOP11, GGRH91, PSTR07, SOC108, STA222, STA223
Session (F): Winter Day
Session (S): Summer Evening

STAR475T Introduction to Probability Theory and Mathematical Statistics
Telephone ID #: 2892475
This course is an introduction to the mathematical theory of probability and statistics. The course covers: probability models, marginal and conditional probability, expectation, the Weak Law of Large Numbers and the Central Limit Theorem, statistical models, the likelihood function, estimation, hypothesis testing, linear models.
Exclusion: STA242, 262
Prerequisite: STA122 or one of its exclusions and MAT481
Session: Winter Day
Women's Studies

Discipline Representative: F. Iacovetta (274-7134)

Women's Studies examines women's role, women's work, and women's contributions past and present to society. Because men have been the more dominant gender, the bulk of past scholarship has reflected a male perspective on the world and has focused on the activities and experiences of men. Women's Studies seeks to redress this imbalance by providing a perspective on women's activities and experiences. This examination is interdisciplinary in nature, drawing upon work in such areas as Anthropology, Literature, Fine Arts, Geography, History, Linguistics, Philosophy, Psychology, and Sociology. Women's Studies is thus concerned with such issues as women's work and women's role in the family in different times and different societies, the development, transmission and perpetuation of ideas and attitudes about women; women's contributions to culture; and the particular concerns and problems of women today. Students preparing for a career in research, teaching, administration or social work are encouraged to consider enrolling in the Major or Minor Programme in Women's Studies, since these careers involve consideration of women and women's issues, a background in Women's Studies would be a definite asset.

The Major Programme in Women's Studies

Supervisor: L. Carney

The Major Programme is designed to acquaint students with the substantial body of scholarship and the critical concepts and methodologies to examine women's issues in the major academic disciplines.

Students must select the full-course equivalents as follows:

1. WST101Y Introduction to Women's Studies
2. WSTB01FS Feminist Approaches to the Humanities
   and either
   3. WSTB01FS Feminist Approaches to the Social Sciences
   or
   4. WSTB01FS Feminist Approaches to Science

For one and one-half full-course equivalents from the list below, students should check course descriptions for prerequisites:

- ANTH101Y The Anthropology of Women and Gender
- CLAS025Y Women, Family and Household in Ancient Rome
- CRIM395Y Women in the Theatre
- ENGLISH Women and Literary Studies
- ENGD10-10FS Studies in Major Writers
- ENGL70-80FS Selected Topics in English
- FARB11Y Women and Visual Art
- FREN111F French Women Writers
- FREN211Y Women and Literature in France
- GEOG206Y Women and the City
- HIS105Y The Sixties Since 1550
- HIS255FS Immigrants and Race
- HIS265FS Relations in Canada

Women's Studies

- HIS104FS History of Feminism
- HIS245FS Since the 18th Century
- JLCN20FS Language and the Sexes
- PHIL325Y Social Issues*
- PHIL311Y Philosophy and Feminism
- PHIL325Y Feminism
- PSY211Y Psychology of Gender
- PSY222FS Socialization Processes
- SOC121T Sociology of the Family
- SOC160F Sex, Sexuality and Society
- SOC221F Changing Family Life in Canada
- SOC222FS Sociological Theory
- WSTH11Y Vagrant Family Forms
- WSTS125Y Race, Class and Gender Issues
- WSTS135F Women, Issues of Violence and Safety
- WSTS155F Women and the Media
- WSTC10Y Women and Development

4. WSTD01H Senior Project in Women's Studies

WSTD02H Women's Studies Research and Methods

* indicates students should check if topic of the year have significant elements pertaining to women.

The Minor Programme in Women's Studies

Supervisor: L. Carney

The Minor Programme offers a more concentrated course of study designed primarily for students who wish to broaden their Women's Studies coursework in a particular area.

Students must select four full-course equivalents as follows:

1. WST101Y Introduction to Women's Studies
2. WSTB01FS Feminist Approaches to the Humanities
   or
   WSTB02FS Feminist Approaches to Social Sciences
   or
   WSTB03FS Feminist Approaches to Science
3. and one-half full-course equivalents, one of which must be at the C- or D-level, taken from the list in #1 above and the lists in #3 and #4 of the Major Programme in Women's Studies.

WSTA01Y Introduction to Women's Studies

A cross-disciplinary course which brings the perspectives of philosophy, psychology, political theory, sociology, anthropology, history, language, literature and the arts to the study of the position of women in western civilization.

The goal of this course is to enable students not only to enter into the contemporary feminist debates but to understand the significance of these debates within the disciplines under discussion. Issues to be addressed include: the patriarchal foundations of our culture; the political aspects of the family; the psychological dynamics of socialization; women's work in the home and paid labour force; the transmission and perpetuation of images of women; and contemporary feminist issues including reproductive freedom, sexual politics, violence against women, and pornography. Exclusions: JUA020Y, JNJ25Y

Session: Winter Day

Co-ordinator: L. Lopresti

Offered 1995/96 and 1996/97

WSTB01F Feminist Approaches to the Humanities

Telephone ID: 3172033

An exploration of feminist critiques of traditional humanist enquiry.

A major focus of the course will be the examination of how feminist perspectives have enabled the re-conceptualization and reshaping of the liberal arts. How has the exposure of dominant assumptions about gender helped to question the traditional scope and methods of disciplines such as history, philosophy, fine arts, literature, and language?

Supervisor: C. Seaman

Prerequisite: WSTA01Y

Session: Evening

Co-ordinator: C. Guberman

Offered 1995/96 and 1996/97

WSTB03S Feminist Approaches to Science

Telephone ID: 3172035

An examination of feminist critiques of the objectivity, neutrality and rationale of science.

A major focus of the course will be our examination of the feminist claim that 'both gender and science are socially constructed categories.' We will examine the ways in which the subject of science has been doing science in the ways for and against it. We will also explore feminist and non-feminist accounts
and critiques of a number of conceptions of "scientific success and progress". Prerequisite: WSTA017

Session: Winter Day
P. Thompson
Not offered 1995/96 or 1996/97

WSTD11Y Race, Class and Gender

An overview of the complex interactions between these socially significant variables: race, class and gender in traditional and modern societies. Drawing on both historical and contemporary patterns in diverse societies, the course offers feminist perspectives on the ways in which class as well as ethnicity or race have shaped the lives of women and men.

Prerequisite: WSTA017 or permission of instructor.
Exclusion: NEW343H, NEW 335H, NEW434H, NEW435H, if sufficient overlap in content is present.

Session: Winter Day
TBA
Not offered 1995/96
Offered 1996/97

WSTD125 Women: Issues of Violence and Safety

An analysis of violence against women and of current and potential initiatives toward creating safety.

The first part of the course will examine aspects of public and private violence against women such as "wife assault", elder abuse, sexual harassment and other forms of assault within a historical, cultural and structural context. The second part will explore initiatives toward making communities safer, including strategies for prevention and education.

Prerequisite: WSTA017 or permission of instructor.

Session: Summer Evening
Offered 1995/96

WSTD135 Women and the Media

An interdisciplinary approach to feminist critiques of the media.

The representation of women will be examined in media such as film, television, videos, newspapers, magazines and radio. Students will also develop a perspective on women's participation in, and contributions toward, the various media industries.

Prerequisite: WSTA017 or permission of instructor.
Exclusion: NEW343H, NEW 335H, NEW434H, NEW435H, if sufficient overlap in content is present.

Session: Winter Evening
TBA
Not offered 1995/96 or 1996/97

WSTD101 Women and Development

An examination of the role of women in developing countries, how development affects these women and the potential impact that women have on the development process.

Concerns which might be discussed include: the meaning of development for women; the division of labour, food production, and technology; fertility and family planning; migration patterns; the impact of economic development on women's roles, work and family life; women's influence on development and change; development strategies which include women.

Prerequisite: WSTA017 or permission of instructor. Recommended: IDS080Y or IDS085Y
Exclusion: NEW425Y

Session: Winter Evening
P. Swayne
Offered 1995/96
Not offered 1996/97

WSTD201 Senior Project in Women's Studies

Students will choose a topic of special interest to them from an area in which they have done some concentrated study, and undertake an in-depth investigation of the topic under the supervision of a Women's Studies faculty member.

Arrangements with the supervising faculty member must be made by the student before the end of the spring pre-registration period. A substantial essay, research project, or major presentation on the approved topic will be given to the supervising faculty member and a second evaluator will be appointed.

Exclusion: IDS070Y
Prerequisite: WSTA017; one of WSTD001, WSTD002, or two PCEs from the list on #3 of the Major Programme in Women's Studies (or permission of the instructor).

Session: Winter Day
Staff
Offered 1995/96 and 1996/97

WSTD001 Women's Studies: Research and Methods

Students will design, develop and conduct a research project about women from an interdisciplinary perspective.

The course will provide 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. There will be regular consultation with the faculty supervisor.

Prerequisite: WSTA017 and two PCEs from the list on #3 of the Major Programme in Women's Studies (or permission of the instructor).

Session: Winter Day
C. Gallaham
Not offered 1995/96
Offered 1996/97

WSTD002 Feminist Approaches to the Social Sciences

Prerequisite: WSTA017

Offered 1995/96 and 1996/97

Courses not offered in 1994/95

WSTD003 Women's Studies: Research and Methods
Re-enrolling Scarborough College Students

Students previously registered at Scarborough College who wish to return to Scarborough College after an absence of two or more consecutive sessions must submit an application to re-enrol at the Office of the Registrar, Scarborough College, Room S-415. Students who have a degree conferred normally continue as Special Students. Students who wish to start a second degree must apply to the Assistant Registrar—Admissions. For further information on re-enrollment, telephone (416) 287-7529. See also the section on Overall Standing.

Admissions

The following is a brief description of admission policies and procedures. Full information may be obtained from:

Admissions and Awards
University of Toronto
315 Bloor Street West
Toronto, Ontario, Canada
M5S 1A3

Telephone enquiries: (area code 416)
Admissions - 978-2190
Secondary School Liaison - 978-2771
Scarborough Campus Secondary School Liaison/Campus Tour - 287-7563

General Admission Requirements to Scarborough College, University of Toronto for 1994-95

Candidates Applying from Ontario Secondary Schools

- 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 11.
- Applicants must present credits to satisfy any prerequisites of specific courses or specific programmes in which they intend to enrol.
- Applicants must satisfy English Facility Requirements.

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 the OAC English 1 and 2 equivalent. Such applicants are, however, encouraged to include English in their preparation for university. If OAC English 1 and 2 equivalent is not included, applicants will not be penalized by having the result included in their admission average if the grade is low.

3. One of the following tests and scores will be accepted by the University of Toronto as satisfactory proof of English facility:
   - Certificate of Proficiency in English Test (COPE). The requirement is a minimum total score of 5 with no zero in any skill area and a score of no less than 2 in writing.
   - The Test of English as a Foreign Language (TOEFL) and the Test of Written English (TWE). The requirement is a minimum score of 600 on the TOEFL test with a score of at least 5.0 on the TWE test. Both tests must be written. Alternatively, a TOEFL score may be presented with a minimum score of 2.0 on the COPE writing test.
   - Michigan English Language Assessment Battery. The requirement is a minimum overall score of 92.
   - The British Council English Language Testing Service Examination. Applicants are required to have scored an overall band of 7 and no band less than 5.

Note: Before 1972, 7 Grade 13 credits were required.

Prequisites:

Students should choose OACs which will fulfill the prerequisites for university courses they intend to take. These prerequisites are listed at the end of this section and after the description of each course in the Calendar.

Admission by Equivalent Certificate:

The certificates listed below are considered acceptable for admission consideration.

**Other Canadian Provinces**


Grade 12 Quebec, 12 academic CEGEP courses.

Note: Those who completed their high school studies in Canada in 1955 or earlier 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. Credit is granted only for work which is considered appropriate for inclusion in an Arts and Science programme at the University of Toronto.

Note: that students transferring to the University of Toronto will be required to complete at least half of their degree credits and half of their programme requirements as Scarborough College students. Students transferring from other divisions of the University of Toronto are exempt from this requirement.

Ontario Colleges of Applied Arts and Technology:

1. Candidates who have completed a one-year CAAT programme (or one year of a two- or three-year CAAT programme) are not eligible for consideration for admission to the first university year unless they have also completed the final academic secondary school year of the jurisdiction in which they attended secondary school.

2. Candidates who have completed a two-year CAAT programme (or two years of a three-year CAAT programme) are eligible to be considered for admission to the first year of a degree programme.

3. Candidates who have completed a three-year CAAT programme are eligible to be considered for admission with up to five academic credits.

International Baccalaureate:

Candidates who have completed the Diploma with at least 13 points from the higher level subjects and 24 points in total, may be considered for admission and awarded transfer credit for each higher level subject with a grade of 5, 6 or 7.

Other Countries/Other Qualifications:

Students who wish to apply for admission on the basis of work completed in other countries or on the basis of other qualifications should write to Admissions and Awards, outlining their academic qualifications and intended area of study.

Special Students on a Letter of Permission (Visiting Students):

Students with valid Letters of Permission from other accredited North American universities may register directly at Scarborough College, taking courses for transfer credit at their own home university. Visiting Student status does NOT imply acceptance as either a student proceeding towards a degree or a Special Student. Call (416) 287-7529 for applications.

Application Procedures:

Students currently enrolled in an Ontario secondary school should submit applications through their school's guidance office.

All other applicants should request application forms from Admissions and Awards, giving full details of their educational background and standing.

The average required for admission varies from year to year. Students are selected by taking into consideration a wide range of criteria including secondary school marks, distribution of subjects taken, performance in subjects relevant to the academic programme selected, results in senior division prerequisite courses, and supplementary information obtained through the Student Profile.

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 extending circumstances. Applicants who matriculated prior to the current year are advised to telephone the Office of Admissions and Awards for information.

Possession of minimum requirements does not guarantee acceptance. Because of the limitation of space, preference will be given to applicants with the best qualifications. The University of Toronto reserves the right to determine whether or not it will accept degree-granting institutions in Ontario to meet the standards for admission to University of Toronto programs.

Application Deadlines:

Application forms are strongly advised to submit application forms well in advance of the following deadlines:

Admission to the 1994 Summer Session:

Term I (beginning in May) - March 15
Term II (beginning in July) - May 15
### OAC Prerequisites by Program of Study

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<tr>
<th>Programme</th>
<th>Required OACs</th>
<th>Recommended OACs</th>
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<td><strong>Co-operative Programmes</strong></td>
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<td>Administration (Civ, Spec)</td>
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<td>Arts Administration (Art, Spec)</td>
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<td>Environmental Science (Env, Spec)</td>
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<tr>
<td>International Development Studies (Int, Spec)</td>
<td>English (4U)</td>
<td>English (4U)</td>
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<tr>
<td>Computer Science and Physical Science (Comp, Spec)</td>
<td>Science (4U)</td>
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<td><strong>Arts- Humanities</strong></td>
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<td>Art (Art, Spec)</td>
<td>Visual Arts (4U)</td>
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<td>French (Spec)</td>
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<td>German Language (Ger, Spec)</td>
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<td><strong>Management and Economics</strong></td>
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<td>Economics (Spec)</td>
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<td>Economics (Maj, Min)</td>
<td>Business (4U)</td>
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<tr>
<td>Economics and Mathematics (Spec)</td>
<td>Science (4U)</td>
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<td>Management and Economics (Spec)</td>
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<td>Management and Language (Spec)</td>
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<td>Management and Language, with German (Spec)</td>
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<td>Management and Language, with Italian (Spec)</td>
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<tr>
<td>Management and Language, with French (Spec)</td>
<td>French (4U)</td>
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Note: Most of the following programs do not require specific OAC prerequisites. However, courses which develop writing and analytical skills are recommended.
Unless specified, the following awards do not require an application: 1) Scarborough College undergraduate degree students with excellent academic standing are considered. The official awards are on file in the Office of the Registrar (Room S412). Students who are also eligible for consideration for other general University of Toronto scholarships and bursaries in addition to the awards listed below. Students should check the "Awards" binder in Room S415. Inquiries (416) 287-7520.

A general condition for holding an entrance or in-course award is that the student must register and be in good standing. The student must maintain good standing in the following academic year with degree status. Students who have been awarded a scholarship, which is based on enrollment in a particular course of study, must continue in that programme to receive the award. Scarborough College may not award a scholarship if, in a particular year, the academic achievement of the candidate is not of high standard.

Admission awards

A substantial number of admission scholarships are awarded each year on the basis of excellent academic standing. Successful applicants will be notified at the time they receive an offer of admission to the University.

University of Toronto Scholars Programmes - National Scholarships

The National Scholarship Programme recognizes the very best students from secondary schools across Canada. Each secondary school is invited to nominate its outstanding graduating-year student to receive a National Book Award. The student is then eligible for consideration for a University of Toronto National Admission Scholarship. Five National Scholarships are awarded each year. The scholarships have a value of $5,000 per year for four years, and are normally for the first year. Finalists in the National Scholarship competition will receive an Honour Scholarship, which is similar to the National Scholarship, but with a value of $2,200 per year. Ontario secondary school students should contact their high school guidance offices for scholarship applications and information. All other students should write to University of Toronto, Admissions and Awards, 315 Bloor St. W., Toronto, Ontario, M5S 1A1.
University of Toronto Scholarships Program - Admission Scholarships

The University of Toronto will honour the most outstanding admission applicants as University of Toronto Scholars. These scholarships, which have a value of $1,500, may be held in any programme of study at the University, and in conjunction with the faculty or college admission awards. Approximately the top 120 students entering the University may expect to be selected as University of Toronto Scholars.

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. Wynn Plumptre, a former principal of Scarborough College.

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 the name of Frederick A. Urquhart, a distinguished ornithologist.

University of Toronto, Scarborough College Admission Scholarships

Approximately forty scholarships are awarded to students on the basis of exceptional academic achievement.

Scarborough College 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. Applications will be invited for schools in the Scarborough area. Other applicants may request an application for submission to the Office of the Registrar. Telephone: (416) 287-7329.

Scarborough Alumni Entrance Scholarship

Awarded to a student entering first year in the secondary school program.

Warner-Lambert Admission Scholarship

Awarded to a student entering first year on the basis of academic excellence in the secondary school program.

Ting Sum Tang Memorial Entrance Scholarship

Awarded to a student on the basis of excellent academic achievement in the secondary school program. Donated by the Federation of Chinese Canadian Professionals (Ontario Education Foundation).

In-course awards

University of Toronto Scholars Programme - In Course Scholarships

The University will identify outstanding undergraduates completing first, second and third years as University of Toronto Scholars. It is expected that these top students will receive awards of at least $500. The programme is being phased in and students completing first or second year in 1994 will be considered for these awards.

A.D. Allen Scholarship

Awarded to the outstanding student entering first year at Scarborough College, in any field of study. The scholarships are awarded in memory of Dr. A.D. Allen, a former principal of Scarborough College.

Vincent Sladen In-course Scholarships

A total of six scholarships are awarded on the basis of exceptional academic achievement at the completion of each year of study. The scholarships are awarded in memory of Professor V. Sladen, a former member of the faculty in Economics.

Scarborough College In-course Scholarships

Awarded to the outstanding students in each year at Scarborough College.

Scarborough Campus Student Council Prizes

Awarded to a student in good standing entering the second, third or fourth year who has made an outstanding contribution to the Academic, Social or Athletic life of Scarborough College. Application required.

Joan E. Fuller Award

Awarded to a student, alumnus/a, administrative staff member or faculty member who has made a significant contribution toward upholding the quality of academic or extra-curricular student life on campus. Sponsored by the University of Toronto Alumni Association. Nomination required.

Stanley Kosta Todrowew Scholarships

Awarded on the basis of academic excellence to one or more students registered in a Life Sciences or Physical Sciences programme which leads to a Bachelor of Science degree.

Norman F. Brown Memorial Award in Humanities

Awarded to a student enrolled in the second or third year of a programme in the division of Humanities on the basis of excellent academic achievement.

The Hudson's Bay Company Scholarship

Awarded to the student who has demonstrated outstanding academic achievement at the end of third year.

The University of Toronto Women's Association Leo Dove Memorial Scholarship

Awarded to a student on the basis of excellent academic achievement in the third year of a four year undergraduate degree programme.

The Ali Teyyeb Scholarship

Awarded to a student who demonstrates excellent scholarship in political geography, geography of resources, studies of developing nations, Canadian studies, or an appropriate related field. The scholarship is awarded in memory of Professor Ali Teyyeb, a former member of the faculty in Geography. Technical candidates are nominated by members of the Scarborough College faculty.

Baldin 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.

Tom McFarlane Prize in Anthropology

Awarded to the graduating student entering the final year of the Major or the Specialist Programme in Anthropology.

John Pounder Prize in Astronomy

Awarded to a full-time student entering the third year of a physical sciences programme on the basis of excellence in study in ASTA203Y and one 8 or C level course in Astronomy.

John S. Mair Prize in Canadian History

Awarded to the student with the highest standing in HIST100Y Introduction to Canadian History.

William Beedmore Memorial Prize in History

Awarded to the student completing third year, who in the opinion of the members of the teaching staff in History, has excelled in the study of History. Awarded in the memory of the late William Beedmore, a History graduate of Scarborough College.

The Morris Kremer History Prize

Awarded to a student entering the third year of the Major or Specialist Programme in History on the basis of academic performance (at least B standing) and financial need. Emphasis is placed on academic performance. Application required.

Defendorf Award in History

Awarded on the basis of an essay, 2,500 to 5,000 words in length, on a topic focusing on Canadian History, Politics, Economics or similar field of Canadian Studies. The essay should have Canada as its primary, principal or exclusive focus. Essays are normally those submitted for course work and nominated by instructors. However, students may also submit a copy of their essays to either the Chair of the Division of Humanities or the Chair of the Division of Social Sciences by April 30. 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.

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 usually those submitted for course work and nominated by instructors. However, students may also submit a copy of their essays directly to the Chair of the Division of Humanities by April 30. 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.

The Oxford University Press English Essay Prize

Awarded for the best essay written for an English course in the past academic year. Essays are nominated by instructors.
The Margaret H. McCoy Johnston Scholarship Awarded to the student enrolled in a major or specialist programme(s) in a modern language who, on entering the third or fourth year, has the highest grade point average in courses taken to satisfy the programme(s). (Minimum GPA 3.2).

Peter Friesen Prize in French Awarded for the best undergraduate essay in French Drama. Essays will be nominated by instructors.

Anita FittoGerald Prize in Women's Studies Awarded for the best essay in the area of Women's Studies. Essays are nominated by instructors.

Dr. Vivian Pascal Memorial Prize in Psychology Awarded to a full-time student entering the fourth year of the Specialist Programme in Psychology 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, have best demonstrated excellence in the subject.

Margson Scholarship in English Awarded to an outstanding student who has completed the second year of the Major or Specialist Programme in English.

Leigha Lee Browne Scholarship in Drama Awarded to a student displaying outstanding ability in the dramatic arts who is either continuing in a Drama Programme at Scarborough College or is graduating and has registered in an advanced training programme in the dramatic arts.

Application required.

The Glencariff Award in Cell and Molecular Biology Awarded to the student entering the fourth year of study in the Specialist Programme in Cell and Molecular Biology who has completed at least ten of the required full course equivalents of the Programme requirements and who has the highest grade point average in the Programme (minimum B+3.30 GPA).

The Glencariff Award in Computer Science Awarded to an excellent student entering the third year of a Major Programme or fourth year of a Specialist Programme in Computer Science.

The Glencariff Scholarship in Environmental Earth Sciences Awarded to the student in the Specialist Programme in Environmental Earth Sciences who has the highest aggregate standing at the end of the third year of study in the required courses of the programme.

The Glencariff Scholarship in Physical Sciences Awarded to the outstanding student who (i) has achieved at least an average of A+ on five full credits, of which three must be physical sciences courses, in the first year of full-time study and (ii) is registered as a full-time student in a physical sciences Specialist Programme in second year.

Arthur Louden Scholarship(s) Awarded to one or more students enrolled in the Early Teacher Project (e.g. students enrolled in Physical Sciences Scarborough programmes) on the basis of academic achievement (minimum 3.3 GPA).

Heawell-Packard Calculator Award Awarded to students entering a Specialist Programme in Computer Science who have demonstrated excellence in sciences and computer sciences.

The Scarborough College Physics Prize Awarded to the student as a Physics Specialist or Major Programme, including joint Programme, who has the highest combined grade point average in PHYB01, PHYB05, PHYB06, PHYB17 and PHYB19, provided that the average is at least 3.3 (B+).

The William D. Peak Award in Biology Awarded to a full-time student entering the second year of any programme in the biological sciences on the basis of academic achievement in BIOA03Y Introductory Biology (minimum 3.3 GPA / B+ pha). Emphasis will be placed on the laboratory component of the course and overall contribution to the class.

The William D. Peak Award in Biology Awarded to a student completing the third year of the Specialist Programme in Management or Management and Economics with the highest grade (at least A minus) in MGMT307Y.

Jean Black Memorial Scholarship in Management Awarded to a student enrolled in a Management programme on the basis of excellent academic achievement. Preference will be given to a student entering fourth year who has completed the Finance courses, MGMT303H and MGMT301H with high standing.

Sarnia-Lambert Arts Administration Scholarship One scholarship will be awarded to a student enrolled in the Co-operative Programme in Arts Administration who has demonstrated outstanding academic achievement. One scholarship will be awarded to a student enrolled in the Co-operative Programme in Arts Administration who has demonstrated outstanding achievement on the work placement.

SKF Canada International Development Scholarship Awarded to the student enrolled in the Co-operative Programme in International Development Studies who has demonstrated outstanding academic achievement.

Canadian Society for Chemistry Silver Medal Awarded to a student entering the fourth year of a specialist programme in chemistry who has the highest standing in the programme in third year.

Canadian Society for Chemistry, Toronto Section Book Prize Awarded to the most improved student entering the fourth year of a specialist programme in chemistry.

Division of Physical Sciences Book Award in Chemistry Awarded to a student entering the third year of a programme in chemistry based on academic achievement in the courses required for the programme (a minimum of three-credit courses must be completed to be considered).

Roth & Haas Canada Scholarship in Chemistry Awarded to an outstanding student entering either (i) the third year of a major programme in chemistry or (ii) the third or fourth year of a specialist programme in chemistry.

Andrew Tsang Memorial Scholarship in Chinese-Canadian Studies Awarded to a graduate, whose academic performance and extra-curricular activities in the Chinese-Canadian and Sino-Canadian studies best exhibit a commitment to Chinese-Canadian cultural and economic ties.

Sarnia-Lambert Arts Administration Scholarship Awarded to a student enrolled in the Co-operative Programme in Arts Administration who has demonstrated outstanding academic achievement. One scholarship will be awarded to a student enrolled in the Co-operative Programme in Arts Administration who has demonstrated outstanding achievement on the work placement.
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Samuel Beatty In-Course Scholarships
Awarded to students enrolled in second, third or fourth year in a Specialist Programme offered by the departments of Mathematics, Physics or Computer Science (Faculty of Arts and Science, Scarborough College) on the basis of academic performance and financial need. Application required.

APUS Scholaristic Awards
Part-time undergraduate students who (a) have completed at least ten full courses, of which four are in an area of specialization, and (b) have obtained a B average (G.P.A. of 3.0) in the most recent five full courses, may be considered. Application required.

APUS Award for the University of Toronto Sesquicentennial
Part-time undergraduate students who (a) have completed at least five full courses, with a B average (G.P.A. of 3.0) in the last five full course, 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. Application required.

Jovita Nagy Scholaristic Awards
Part-time students who have a G.P.A. of at least 3.3 in the most recent five courses who have completed the majority of their courses on part-time basis may be considered. Sponsored by APUS. Application required.

Graduation prizes
Graduation Prizes in Humanities, Life Sciences, Management & Economics, Physical Sciences and Social Sciences
Awarded to the outstanding member of the graduating class in each of these areas of scholarship.

All Tahyya Prize
Awarded to the outstanding member of the graduating class in Geography.

The Irving Politizing Prize in Classical Studies
Awarded to the outstanding member of the graduating class in Classical Studies.

Frumin Prize in Psychology
Awarded to the outstanding member of the graduating class who has completed the Specialist Programme in Psychology.

CGA Ontario Award for Excellence
Awarded to an outstanding graduating student completing a Management programme who has displayed excellence in accounting, with grades not less than A minus in each of MGTOHY and MGTOZY.

Graduation Prize in Sociology
Awarded to the student who has achieved the highest scholastic average (grade point average) in either the Sociology Specialist or Major Programme. The grade point average is based on all sociology courses attempted.

CEA-SEGY Award in Neuroscience
Awarded to a student graduating with a four-year degree who has completed either the Neuroscience Specialist or Major Programme, who in the judgement of the Faculty, has demonstrated the most outstanding academic and laboratory performance.

Glibheit Graduation Prize in Computer Science
Awarded to an outstanding member of the graduating class who completed a Major or Specialist Programme in Computer Science.

Glibheit Graduation Prize in Cell and Molecular Biology
Awarded to the student who has the highest grade point average in the Specialist Programme in Cell and Molecular Biology (minimum 85.30 GPA).

The Society of Chemical Industry Student of Achievement Award
Awarded to a member of the graduating class who has completed a Specialist programme in chemistry and achieved the highest standing in the final year. (Minimum GPA of 3.075%: has completed the degree within the normal number of years)

Orpheus Prize in Humanities
Awarded to an outstanding member of the graduating class who has completed either the College Programme in the Humanities, the Major Programme in Music History and Literature, or the Specialist Programme in the Arts.

Graduation Prize in Political Science
Awarded to an outstanding member of the graduating class who has completed a programme in political science.

Digital Equipment of Canada Limited Award
Awarded to the most outstanding student graduating in Computer Science in the University.

John H. Moss Scholarship
Exceptional all-round students graduating in the spring who intend to enter a graduate or second undergraduate degree programme should request an application for this prestigious scholarship from the University of Toronto Alumni Association in the fall. The deadline is normally in January.

Gordon Cuddy Award of University of Toronto Student Leadership Award
To qualify for consideration, students must be in their final year, be in good academic standing and have made a substantial contribution to their college, faculty, or the University as a whole. The award, established by the the University of Toronto Alumni Association, requires a nomination by the college.

Scarbrough College Honours List
Scarbrough College 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 credits. Other students may be nominated by the academic divisions of the College.

Graduation With High Distinction and With Distinction
Scarbrough College students who have achieved an average of at least 3.70 and are registered at Scarbrough College or at the University of Toronto's Faculty of Arts and Science 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 with a cumulative grade point average of 3.20 or better will be considered an individual basis.

Bursaries
University of Toronto Undergraduate Bursaries
Applicants for bursaries must demonstrate financial need. Applications may be obtained from the Counselling Services Office (Room S-320) and the Admissions and Awards Office (Room S-415). Application Deadline: November 1; however, applications will be accepted after this date if there are still funds available.

Glen Levy Memorial Bursary
Awarded to a student enrolled in the Co-operative Programme in International Development Studies returning from work placement to complete the fifth and final year. Given on the basis of financial need. Where two or more students qualify on this basis, the students' contribution to the programme and college will also be considered. Application required. Deadline: September 30.

Edward A. Pickering Placement Bursaries in Arts Administration
Awarded to students enrolled in the Co-operative Programme in Arts Administration undertaking Placement, on the basis of financial conditions during placement. (Applications are required.) Donated by the Corporation of Massey Hall and Roy Thompson Hall.

The MacDonald Bursary
Awarded to a full-time degree student registered in second, third or fourth year who achieved at least a Grade B standing in the previous year and who can demonstrate financial need.

Ontario Student Assistance Programmes
Canadian citizens or permanent residents who have established themselves as Ontario residents, and who demonstrate financial need, may be eligible for interest-free loans or grants. Applications are available from the Counselling Services Office. The Admissions and Awards number is (416) 978-7950.
Students in debt to the University
Scarborough College imposes the following academic sanctions on students in debt to the University:
- Diplomas are not released.
- Written certification of degree and programme completion is not provided.
- Registration of continuing students is cancelled.
- Registration is refused to re-registering students (i.e., returning to the College 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
- Bookstore accounts
- Loans made by colleges, faculties or the University
- Health Service accounts
- Unreturned or damaged equipment
- fines levied under the Code of Behaviour on non-academic matters

Course Key

An introductory course in Anthropology taught throughout the summer session and worth one full credit. PHI 1007 is an advanced course in Philosophy taught in the second term and worth one-half a credit. (In the Student Telephone Service 1-4, 4-3, 3-2, 2-1, and B-2. The last digit of the telephone course identifier indicates the campus with Scarborouh3). In systems using semester hours at the credit unit, “Y,” “A,” and “B” courses would be considered equivalent to six semester hours of credit and “P,” “S,” and “H” courses would be the equivalent of three semester hours of credit.

Exclusions, Prerequisites and Corequisites

1. Exclusions
   A student may not register for credit in a course which lists, as an exclusion, one which the student is also taking or has already passed.

2. Prerequisites
   A student 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. 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 during the session. 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.

3. Corequisites
   Students must either already have passed the corequisite course, or must enrol in it at the same time. If 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
Course Selection 227

consequed course without obtaining a specific waiver of the prerequisite, they may be withdrawn from the course at any time during the session. 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.

4 Exclusions, Prerequisites and
Correquisite in Parentheses

Some exclusions and some prerequisite and corequisite courses are enclosed in parentheses. This indicates that the course is not longer in the College's curriculum. Students who have already passed an excluded course contained in parentheses may not take the course to meet the requirements of the course being described.

Supervised Reading, Supervised Research

and Independent Study Courses

Students in these courses work under the direction of a faculty member with whom they meet periodically or in whose laboratory they work. Students must obtain written permission of instructors before enrolling in them. Forms are available from the Registrar's Office.

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 descriptions, must be met, unless waived by the instructor.

2 Students may not register for credit for a course if they have already passedx another course shown in the course description as an exclusion to that course.

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 not passed. In such cases, 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 which is a specific prerequisite for a course they have already passed.

5 Where students may not register in courses for credit, they may register in them as extra courses. In such cases, both registrations in the course are shown on the student's record, but the second grade is not included in the student's grade point average nor does it count toward the degree.

6 Exclusions, Prerequisites and
Correquisites in Parentheses

Students should, however, note the following:

- The usual load for a full-time student in the Winter Session is five courses.

- The usual maximum load for a student in the Summer Session is two courses.

- Students who are on probation are strongly advised to carry no more than an average course load. Should they choose not to follow this advice they do so at their own risk.

- In the Winter Session students are assigned to no more than 6 courses before classes start. Students wishing to enroll in more than 6 must wait until September to add them.

- Students who wish to register in courses on the St. George or Erindale campuses should consult page 235 of this Calendar.

- Full-time students are those students who register in at least four courses in the Winter Session.

- Students who are restricted on admission to part-time students may have a term course load of no more than 3.0 in the Winter Session or 1.0 in the Summer Session until they have completed at least three courses and have a cumulative grade point average of at least 2.0. Term course load is calculated as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>1st Term</th>
<th>2nd Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>A courses</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>B courses</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>C courses</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>D courses</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>E courses</td>
<td>2.0</td>
<td>2.0</td>
</tr>
<tr>
<td>F courses</td>
<td>0.0</td>
<td>2.0</td>
</tr>
</tbody>
</table>

10 Students must register for their courses in accordance with instructions issued each session by the Registrar. Students who wish to change their registration: may do so only until the deadlines for adding and withdrawing from courses, and as indicated in the "Academic Calendar" of this Calendar; must notify the Registrar of any change through the Student Telephone Service or by means of a registration change form, submitted by the appropriate deadline.

11 Where multi-sectioned courses have a common examination, students enrolled in the evening section of the course may be required to sit an examination during the day.

NOTES:

A course. The word course is used in two ways:

- To describe a full or half course such as "the last day to withdraw from a course", or
- To describe a number of full courses, or the equivalent in full and half courses such as the requirement of passing fifteen courses for a three-year degree.

2 To Pass a Course. To pass a course means to obtain a grade of D- or better in that course (or "Credit" in a Credit/No Credit course).

A Specific Prerequisite. This rule does not apply in the case of non-specific prerequisites (such as "one F level course in English") or in the case where one of two or more completely different courses may serve as prerequisite.

Registration

Registration consists of two basic stages:

1. Course selection, and
2. Fees payment.

Both must be completed by the appropriate deadline in order to be considered a "Registered" student and to obtain a place in any course selected. (For deadlines and further information, see the registration material published separately for each session.)

Course selection

Courses may be selected either through the Student Telephone Service or by submitting registration form directly to the Registrar's Office. (For regulations on online selection, see page 227.)

Fees Payment

The University Fees Department publishes a schedule of fees for each session. The schedule for the 1994 Summer Session will be included in the registration package. The schedule for the 1994-95 Winter Session will be available in June. Further information on fees may be obtained from the Fees Department, University of Toronto, 215 Harrow Street, Toronto, Ontario, M5S 1A2; (416) 978-2142.

Programme registration

Programme registration takes place in the Winter Session only. All degree students and at least 4.0 credits are required to register in their Specialist, Major, College or Minor Programmes. Students may only register in Programmes offered by their College. (For regulations governing Programmes, see page 231 of the Calendar.)

Summer Session

1994 Summer Session registration begins on April 5. Students who registered at the College in the 1993 Summer Session or the 1993-94 Winter Session and who are on suspension are eligible to register. Displaced students on March 28, students may pick up their registration material from the Registrar's Office. New students, students who reentered (i.e. reactivate their enrollment after an absence of one year or more) and other students who are not on campus (e.g. students who withdrew) will be mailed their registration material upon request. Most courses in the Summer Sessions are assigned on a first come-first served basis.

Winter Session

1994-95 Winter Session registration begins on March 14. Students who registered at the College in the 1993-94 Winter Session and who are on suspension are eligible to register. Students may pick up their registration material from the Registrar's Office. Registration material will be mailed upon request to new students, students who reentered (i.e. reactivate their enrollment after an absence of one year or more) and other students who are not on campus.

Course scheduling

Before classes start in September, all requests for course enrollment received prior to the appropriate deadline are considered at the same time in:

- June
- August

Priorities for course scheduling

With the exception of courses with restricted admission, priority is given as follows:

<table>
<thead>
<tr>
<th>Year of Study</th>
<th>Course Level</th>
<th>Priority</th>
</tr>
</thead>
<tbody>
<tr>
<td>4th</td>
<td>14.0</td>
<td>given in</td>
</tr>
<tr>
<td></td>
<td>9.0 to 14.0</td>
<td>all courses</td>
</tr>
<tr>
<td>3rd</td>
<td>9.0 to 14.0</td>
<td>C &amp; D level</td>
</tr>
<tr>
<td>2nd</td>
<td>4.0 to 8.5</td>
<td>B level</td>
</tr>
<tr>
<td>1st</td>
<td>4.0 to 8.5</td>
<td>A level</td>
</tr>
</tbody>
</table>

After classes have started in September places in courses which do not have restricted admission are assigned on a first come-first served basis.

Time Schedule

Following the June and August course scheduling, personal timetables will be mailed to all students who have requested enrollment in a course. Following the September course scheduling, timetables will be available to the Meeting Place on the first two days of classes and thereafter from the
Changing sections in a course
Students may change 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 course coordinator or from the coordinator of the new section or from the course coordinator.

Withdrawal from a course
If students withdraw from a course by the appropriate deadline, no record of registration is shown on the student's transcript. If students cease to complete course requirements but do not withdraw officially by the deadline, a grade based on the marks awarded (including a zero for any incomplete work) will be recorded.

Withdrawal from the session
Students who wish to withdraw from the College for a given session do so by withdrawing from all courses by the dates specified in the Academic Calendar. Students must also complete the following procedures:
- return any borrowed books to the Library;
- pay any outstanding library fines and receive clearance from the library;
- return any equipment borrowed from the College Recreation Centre and surrender any recreation centre locker;
- surrender any College locker and return (perhaps for a partial refund) any College parking permit; and
- surrender any laboratory locker and equipment.

Students who wish to withdraw from the College are advised to speak with a Counsellor in the Counselling Services Office. The counsellor will advise students concerning the academic consequences of their withdrawal (deadline dates, eligibility for admission, etc.), any fees adjustments and repayment of Ontario Student Assistance.

Degrees
Scarborough College students may earn a B.A. (Honours or Arts), a Bachelor of Science or a Bachelor of Commerce degree. Students may elect to receive a B.A. or a B.Sc. degree. Students are required to complete the requirements for a three-year degree or an Honours (four-year) degree. The B.Com. degree may only be negotiated as part of a four-year degree. Students who wish to graduate must notify the Office of the Registrar either through the Student Telephone Service or on a

degree request form by 15 February for students registered for the Spring Convocation or by 11 August for graduation at the Fall Convocation. Students are advised, however, to make their requests in the first term of their final session in order to avoid possible problems which may be solved well in advance of Convocation. Degrees are conferred at summer convocations, held twice annually: the Spring Convocation held in June and the Fall Convocation held in November. Students who have requested their degree will be mailed complete information about the time and arrangements in March for the June Convocation and in October for the Fall Convocation.

Degree requirements
Students who first registered at the College before the 1989 Summer Session may, if they wish, complete the degree requirements outlined in the 1988/89 Scarborough College Calendar. Students who first registered at the College before the 1980 Summer Session may, if they wish, complete the degree requirements outlined in the 1979/80 Scarborough College Calendar.

Three-year degree
To qualify for a three-year degree, students must:
1. pass at least fifteen courses
2. complete the requirements of a Major Programme or a College Programme or two Minor Programmes
3. earn a cumulative grade point average of at least 1.60.

Honours and Bachelor of Commerce degrees
To qualify for a four-year degree, students must:
1. pass at least twenty courses
2. complete: (a) a Specialist Programme, or (b) two Major Programmes, or (c) a Major Programme and a College Programme, or (d) three Minor Programmes, or (e) two Minor Programmes and either a Major Programme or a College Programme.
3. earn a cumulative grade point average of at least 1.60.

B.A., B.Sc., and B.Com. degrees
The type of degree is determined by the Programme completed. The type of degree is shown on the student's transcript. The degree code is shown on page 16 for the type of degree which the Programme leads.
Where students use a combination of three programmes to satisfy the requirements of an Honours degree, in order to receive a B.Sc., two of the three must be in the sciences. Where students use two minor programmes to satisfy the requirements of an Honours degree, in order to receive a B.Sc., one must be in the sciences. Where students use two major programmes to satisfy the requirements of a degree in the sciences, one must be in the sciences.

"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.Com., or B.Sc. from the University of Toronto will be considered for admission to a second degree programme only of an alternative type (i.e. students with a B.A. degree may only complete a B.Com., or B.Sc. degree).

Application for admission to a second degree programme is made through the Assistant Registrar-Academics.

Regulations governing special students

"Special students" are students registered at Scarborough College for degree courses: (a) who are not proceeding towards a University of Toronto degree, or (b) 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 special students are specifically exempted, all students are subject to the conditions of the curriculum. Where students have been admitted as special students, the conditions of their admission supersede the normal regulations governing academic status.

Programmes of study

A list of Programmes may be found on page 16.

Specialist Programmes

1. Specialist Programmes are designed to provide concentration in an area of study that is a discipline, a group of disciplines, or a particular theme or area of study. A Specialist Programme may be taken only as part of an Honours or a Bachelor of Commerce degree and will consist of at least nine courses. There are four Specialist (Co-operative) Programmes.

Programmes

1. Major Programmes are designed to provide concentration in an area of study that is a discipline, a group of disciplines, or a particular theme or area of study. A Major Programme may be taken only as part of either a three-year or an Honours degree and will consist of six to eight courses.

College Programmes

2. College Programmes are designed to provide an organizing framework for students desiring wide-ranging but coherent programmes of study in a major area of the curriculum. A College Programme may be taken as part of either a three-year or an Honours degree.

Minor Programmes

3. Minor Programmes are designed to provide study in a specific area for students desiring wide-ranging but coherent programmes of study in different areas of the curriculum. A Minor Programme may be taken as part of either a three-year or an Honours degree and will consist of four full courses, including at least one C or D level course.

Approved Individual Programmes

Individual programmes may propose individual programmes of study, other than those listed in this Calendar, for each student who has been admitted only 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 special students are specifically exempted, all students are subject to the conditions of their admission. Where students have been admitted as special students, the conditions of their admission supersede the normal regulations governing academic status.

Programmes of study

A list of Programmes may be found on page 16.

Specialist Programmes

1. Specialist Programmes are designed to provide concentration in an area of study that is a discipline, a group of disciplines, or a particular theme or area of study. A Specialist Programme may be taken only as part of an Honours or a Bachelor of Commerce degree and will consist of at least nine courses. There are four Specialist (Co-operative) Programmes.
must substitute additional courses, approved in advance by the appropriate supervisor, to reduce the average to two or fewer. Such substitutions should be discussed with the appropriate supervisor when the student first registers in the relevant Programmes.

4 Where a student completes the requirements of a Minor Programme and subsequently chooses to complete a Major, College or Specialist Programme, the student may use the courses already accredited in the Minor Programme to fulfill the requirements of the Major, College or Specialist Programme. Upon successful completion of the additional requirements, any previous certification of the Minor Programme will be superseded on the student’s transcript by certification of the Major, College or Specialist Programme.

5 Where a student completes the requirements of a Major or College Programme and subsequently chooses to complete a Specialist Programme, the student may use the courses already accredited to the Major or College Programme to fulfill the requirements of the Specialist Programme. Upon successful completion of the additional requirements, any previous certification of the Major or College Programme will be superseded on the student’s transcript by certification of the Specialist Programme.

6 Supervisors have the authority to deal with special circumstances concerning Programme requirements. They may
- prescribe additional courses where a student is registered in a Major Programme (or a Major and a College Programme) that has two overlapping courses (see above);
- add credits to Programme requirements, courses taken on other campuses of this University or at other universities, and permission course substitutions or other modifications of Programme requirements where they deem them appropriate. When special arrangements are made, students should ask their supervisor to record them on a programme exceptions form.

7 Students should note that certain Programmes will require students to take some of their courses on the St. George Campus.

8 Students intending to enrol in any course on the St. George Campus which they intend completing as part of their programme should consult with their Programme Supervisor first.

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

## Standing in a course

### Grading scheme

<table>
<thead>
<tr>
<th>Grade</th>
<th>Value</th>
<th>Percentage</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.3</td>
<td>90-100</td>
<td>Excellent</td>
</tr>
<tr>
<td>A</td>
<td>4.0</td>
<td>85-89</td>
<td>Good</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
<td>80-84</td>
<td>Adequate</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
<td>77-79</td>
<td>Marginal</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
<td>75-76</td>
<td>Inadequate</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
<td>70-72</td>
<td>No credit</td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
<td>67-69</td>
<td>No credit</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
<td>63-66</td>
<td>No credit</td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
<td>60-62</td>
<td>No credit</td>
</tr>
<tr>
<td>D+</td>
<td>1.3</td>
<td>57-59</td>
<td>No credit</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
<td>53-56</td>
<td>No credit</td>
</tr>
<tr>
<td>D-</td>
<td>0.7</td>
<td>50-52</td>
<td>No credit</td>
</tr>
<tr>
<td>CR</td>
<td>0.3</td>
<td>35-49</td>
<td>Inadequate</td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
<td>0-34</td>
<td>Inadequate</td>
</tr>
</tbody>
</table>

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

### Credit in course

In some courses such as music performance courses, or certain drama 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; where students earn a grade of “No Credit”, the course is included as an F (value zero) in the grade point average.

## Overall standing

### Grade point average

At the end of each summer session (May to August) and each winter session (September to May) both a sessional and a cumulative grade point average (GPA) will be calculated for each student, and shown on the student’s transcript.

- A grade point average is calculated as follows: the grade points earned in each full course and one-half the grade points earned in each half course are added together; this total is divided by the number of courses (or equivalent) taken.

A sessional grade point average is calculated on the basis of all courses taken in a given session (winter or summer) and is a grade point value.

A cumulative grade point average is calculated on the basis of all courses taken during a grade point value.

### Determination of academic status

Academic status will be determined as follows for students who have attempted at least two and one-half full courses (or equivalent) since beginning their studies at the University of Toronto or at the University of Toronto’s Faculty of Arts and Science.

1. The status of students admitted on condition will be assessed at the end of the second fall term. Each student will be notified of their second full-course equivalent.

2. Where such students earn a cumulative grade point average of 1.70 or better, their conditional status will be removed, and they will be granted "in good standing".

3. Where such students earn a cumulative grade point average of less than 1.70, they will be suspended for one year.

4. Upon their return from suspension, their academic status will be assessed as it is assessed for any other student returning from suspension.

5. Students who have previously incurred a three year suspension will be refused further registration at the University of Toronto.

### 234 Overall Standing

**Aegrotat standing**

The sub-committee on Standing may, on petition, assign a grade of "Aegrotat" (AEQ). This grade is assigned on the basis of term work 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 term mark of C minus or better. Where a student is assigned Aegrotat standing, the course is not included in any grade point average.

### Extra courses

Extra courses are those courses in which students may not register for credit (see "Course Selection" on page 227). The course and its grade will appear on the student’s transcript (designated as an extra course) but the grade will not be included in any grade point average.
Determination of academic status for re-enrolling students at Scarborough College

Students who have studied at other institutions or have advanced standing from the University of Toronto since their last registration at Scarborough College must usually be eligible for transfer credit for such study. See also the section "Study at other universities".

Study at other institutions or other divisions of the University of Toronto

Courses taken for credit by degree students while registered at the University of Toronto's Faculty of Arts and Science or at Woodsworth College are included in Scarborough College grade point averages as are all University of Toronto courses taken for credit while registered at Scarborough College. Courses taken while registered at other institutions or other divisions of the University of Toronto are not included in grade point averages.

Courses on other campuses

Students are permitted to take some courses on other campuses of the University of Toronto subject to the following rules. Students may be withdrawn from courses after classes have started if their registration violates these rules.

Overall limits

At all times throughout their University career, students registered at Scarborough College must adhere to the requirements that at least half their courses (defined as the total number of courses that they have passed plus those that they are currently taking) are at Scarborough College courses. Students are not permitted an imbalance of courses with the intention of achieving the required distribution by the time of graduation.

Other Than Arts and Science credit

Students are not permitted to register for courses in Faculties other than Arts and Science unless they have received the permission of the Sub-Committee on Standing or unless the courses are required by their Specialist, Major or College Program.

Transfer to the Faculty of Arts and Science

Students who are contemplating transfers to other Colleges in the University should be aware that Scarborough College is in fact a separate faculty and that the rules governing students at Scarborough College differ from those in the Faculty of Arts and Science. Students are urged to consult the Office of Admissions and Awards at 315 Bloor Street West to establish how they will be affected by transferring from one faculty of Arts and Science to another.

Study at other universities

Students who wish to take courses at another university and have credits transferred to the University of Toronto must receive permission from the University of Toronto to do so prior to taking the courses. Students who study at other institutions without the University of Toronto's approval in advance do so at their own risk since permission to transfer credit is not usually granted after the course has been taken. Students should also be aware that duplication of previous study is not permitted. Students who study at another institution after leaving Scarborough College are required to supply official transcripts upon re-enrollment.

Students who wish to take courses at another university and have credits transferred to the University of Toronto must receive permission from the University of Toronto to do so prior to taking the courses.

Special Note: French Summer Immersion Program

The Summer Language Bursary Program is funded by the Office of Languages in Education Program of the Government of Canada in co-operation with the appropriate provincial department. In Ottawa, this is the Ministry of Education and Training. Students interested in this six week immersion program (in Quebec or elsewhere in Canada) should complete the form outline of their program. Students interested in this six week immersion program (in Quebec or elsewhere in Canada) should complete the application form normally upon distribution by the Ministry. (Check with Counselling Services in January for details of enrolment.)

The University of Toronto operates several institution-wide student exchange agreements.

University of Hong Kong

Chinese University of Hong Kong

University of the West Indies, Jamaica

University of Trinitat, Barbados

Kyoto University, Kyoto, Japan

Humboldt University, Berlin, Germany

The University of Toronto also participates in two region-to-region student exchange agreements:

Ontario/Guaden-Wurtemberg, Germany

France Student Exchange

The University of Toronto offers Study Elsewhere opportunities at Granda, Laval and Siena but students may submit proposals for any accredited university that qualifies for a Study Elsewhere experience.

Courses on Other Campuses 235

236 Study At Other Universities

To show how the intended studies will enhance their studies at Scarborough College, students who intend to count the courses towards programme requirements must obtain the approval of the Programme Supervisor before submitting the application. Students normally apply for a Study Elsewhere year during the third year of a four year programme. However, students may apply after completing full-year programmes at Scarborough College. To be eligible a student must have a cumulative grade point average of 2.5 or better. Students must return to Scarborough College to complete the final year of study. A maximum of 5.0 full-course equivalents will be considered for transfer. Completed applications should be submitted to the Vice-Principal and Associate Dean by April 1. The proposed programme will be reviewed by the Study Elsewhere Committee.

Since there is often limited information about foreign universities, students should begin the process early in the term. Most often students register at the host university and follow its course for credit. It is possible that students may arrange to take University of Toronto independent study or supervised reading courses under supervision from the University of Toronto faculty. The University of Toronto offers Study Elsewhere opportunities at Granda, Laval and Siena but students may submit proposals for any accredited university that qualifies for a Study Elsewhere experience.

Further information regarding the exchange program can be obtained from the International Programs, Simon Hall, Room 10, 27 King's College Circle, (416)978-4800.
(iv) Grades and Accountability

Students registering in courses offered by the University of Toronto 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 university 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. The student must arrange for the host university to send an official transcript to Scarborough College promptly after completion of the course. Students who do not register or withdraw without academic penalty must 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" being entered on the student's transcript at Scarborough College.

Fees and aid

Students pay the appropriate fees to the host university and a Study Elsewhere fee will be charged by the University of Toronto. Students who would be eligible for financial assistance through the Ontario Student Assistance Programme for study at Scarborough College may be eligible for similar assistance in their Study elsewhere year. (Consult the Student Awards section of the Office of Administration and Awards.)

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 semester:
   - each course attempted, its abbreviated title, and its grade;
   - the sessional grade point average;
   - the cumulative grade point average at the end of the session;
   - the student's academic status at the end of the session: in good standing, on academic probation, suspended for one year, suspended for three years, refused further registration, or suspension deferred.
- completion of degree and Program requirements, and date of conferral of the degree;
- academic honours awarded: scholarships, prizes or medals awarded by the College or by the University, inclusion on the Scarborough College Honours List, and graduation with high distinction or with distinction.

Ordering copies

Students may obtain copies of their academic transcripts, subject to reasonable notice and upon payment of a fee. Copies of transcripts may be requested in person or by letter only. As a student's signature is required to authorize release of the transcript (in order to protect confidentiality of records), telephone requests cannot be accepted.

Order copies of transcripts: students should visit the Office of the Registrar, or should write to: Office of the Registrar, Scarborough College, University of Toronto, 1285 Military Trail, Scarborough, Ontario, M1C 1A4. Payment by mail should take the form of a cheque or money order payable to "The University of Toronto".

There is no charge for copies of transcripts sent to other divisions of the University of Toronto.

Copies of transcripts sent directly to educational institutions and other institutional recipients bear a replica signature of the Registrar and the official College seal. Copies sent directly to students bear the College seal and are marked "Student Copy." To prevent tampering, most institutional recipients insist that the transcript copy be sent directly to them.

Policy on access to student records

1. Preamble

(a) Academic records of students are ultimately the property of the University, and it is the responsibility of the University to establish overall University policy in this area. This policy establishes university-wide aims, objectives, criteria and procedures which shall apply to the academic records of all students of the University.

(b) The purpose of this policy is to combine consistency with flexibility in such a way as to ensure that:

(i) Students, alumni and former students are allowed as great a degree of access to their own academic records as is reasonably justifiable and administratively feasible.

(ii) A student's right to privacy in relation to his or her academic records is safeguarded as far as both internal university access and external public access are concerned.

(iii) There will be a basic university-wide consistency in the kinds of information collected, recorded, filed and made available.

(iv) In keeping with the pluralistic nature of the University academic divisions may retain some flexibility in the implementation and application of the policies established within this document.

(c) Individual divisions regulations and procedures on access to student academic records, including the statement in the divisional calendar concerning each, shall be reported by the Provost to the Committee on Academic Policy and Programs. Any subsequent revisions shall also be reported.

(d) This policy supersedes the 1979 access degree of access to their own student records and the 1981 access policy for graduate student records.

For the purposes of this policy:

(a) "student" means any person registered at the University for full-time or part-time study in a program that leads to a degree or post-secondary diploma or certificate of the University or in a program designated as a program of post-secondary study at the University by the Governing Council or other University body having delegated authority. On the date of an enquiry or request relevant to this policy, persons who have been registered within a period of two calendar years shall be included in the provisions which relate to "students".

(b) "alumni" or "alumni" means any person who has received a degree or post-secondary diploma or certificate from the University, or any person who has completed one year of full-time studies or the equivalent thereof as determined by the Governing Council, towards such a degree, diploma or certificate, and is no longer registered at the University.

(c) "former student" means any person who is not a student or an alumnus or student who has been registered at the University in a program as defined in Section 2 (e), and is no longer registered at the University.

(d) "academic division" means a college, school, institute, faculty or other division of the University that has academic autonomy (i.e., the right to administer its own degrees, diplomas, certificates and other programs of study), subject only to the authority of the Vice-President and Provost, the President and the Governing Council.

3. Definition of the official student academic records

The official student academic record refers to information relating to a student's admission to and academic performance at this University.

The "official student academic record" shall contain:

(a) Personal information which is required in the administration of official student academic records such as name, student number, citizenship, social insurance number.

(b) Registration and enrolment information.

(c) Results for each course and academic period.

(d) Narrative evaluations of a student's academic performance subsequent to his or her admission, used to judge his or her progress through an academic program.

(e) Basis for a student's admission such as the reasons for admission and supporting documents.

(f) Results of petitions and appeals filed by a student.
Access to official student academic records

(a) Access by a student

(i) A student may examine and have copies made of his or her official student academic record defined in Section 3 above, with the exception of those portions of the record which comprise letters of reference (Section 3(b)(v)) which have been provided or obtained on the expressed or implied understanding that they shall be maintained in confidence. A student may, however, be advised of the identity of the authors of any confidential letters contained in his or her official academic record.

(ii) A student's request to examine a part of his or her official student academic record shall be made in writing and shall be complied with by the responsible authorities within a division. Such compliance shall occur within 30 days of receipt of the request or, within such lesser period as a division may determine.

(iii) A student has the right to challenge the accuracy of his or her official student academic record with the exception of the material specifically excluded in Section 4(a)(ii) and to have his or her official student academic record supplemented with comments to long as the sources of such comments are identified and the official student academic record remains within the custody of the academic division. Reference to such comments does not appear on reports such as transcripts or statements of results.

(iv) It is assumed that all documents relating to petitions and appeals (Section 3(b)(vii)) and not provided on the understanding that they shall be maintained in confidence will be retained within a division, and when needed by a student, will be made freely available. In addition, The Statutory Powers Procedure Act, 1971 of Ontario requires that where the good character, propriety of conduct or competence of a party is in issue in any proceedings in a tribunal to which the Act applies (such as the Academic Appeals Board of the Governing Council), the party is entitled to be furnished prior to the hearing with "reasonable information" of any allegations with respect thereto.

(b) Access by alumni and former students

(i) An alumnus or alumna or a former student may examine and have copies made of the portion of his or her official student academic record as defined in Section 3(a) above.

(ii) A request for an alumnus or alumna or a former student to examine the portion of the official student academic record as defined in Section 3(a) shall be made in writing and shall be complied with by the responsible authorities within a division. Such compliance shall occur within 30 days of receipt of the request or, within such lesser period as a division may determine.

(iii) An alumnus or alumna or a former student shall have the right to challenge the accuracy of his or her official student academic record only under such terms and conditions as the academic division may determine and publish in the official calendar.

(c) Access by University Staff and members of official University and divisional councils and standing committees

Members of the teaching and administrative staff of the University and members of official University and divisional councils and committees shall have access to relevant portions of an official student academic record for purposes related to the performance of their duties. A staff member seeking information may have a "legitimate need to have the requested information for the effective functioning of the position or office." Access to medical information as defined in Section 3(b)(vii) shall be granted to members of the teaching and administrative staff only with the prior expressed or implied consent of the student and, if applicable, in the case of a medical assessment, the originator (physician, etc.) of such.

The Department of Alumni and Community Relations shall have access to appropriate personal information on students and alumni for the purpose of maintaining contact with alumni.

(d) Access by University campus organizations

Recognized campus organizations in the University of Toronto shall have access to information referred to in Section 3(a)(i) as well as to the residential address and telephone number of students named by that organization for that legitimate interest of the organization. The Students' Administrative Council, Graduate Students' Union, Association for Part time Undergraduate Students, and The Newspaper shall be entitled to publish information within the University community a "University-wide directory of students (including undergraduate, graduate, full-time and part-time) giving the general address and telephone number of students as long as there is a realistic provision for students to decline to consent to the disclosure of that information. The name and addresses of students will also be provided to recognized campus organizations for the purpose of distributing information which is not of the class of the following conditions are met:

- The name and address information is not released to a third party.
- The name and address information is not used for commercial purposes.

(e) Access by other organizations

The organization proposes to distribute information which, in the opinion of the Assistant Vice-President (Planning) and University would be willing to distribute if reimbursed by the organization.

The information to be distributed is intended to provide information about the University and is not primarily advertisements for non-University organizations.

The campus organizations agree to use the name and address information only for the specific purpose for which it was provided.
research and informational purposes authorized by the University by the academic division maintaining these records.

(vi) in the event that a student, alumni or alumni or a former student is deceased, the executors of his or her estate shall have access to the official student academic record under the same terms as would the individual if he or she were still living.

(f) Refusal of access

The University reserves the right to withhold access to the statements of results and transcripts of students, alumni and former students who have outstanding debts or obligations to the University in accordance with the Policy on Academic Sanctions for Students Who Have Outstanding University Obligations. The University may also choose not to release the official diplomas to such persons nor to provide written or oral certificates of degree on their behalf.

5. Custody and retention of official student academic records

(a) Academic records of students are normally under the custodial responsibility of the academic division. Every academic division maintaining student academic records shall keep up plans for the eventual disposition of their records in consultation with the University Archivist and in accordance with an approved records schedule which is in compliance with this policy.

(b) These portions of the student's academic record as defined in Section 2(a) shall be maintained permanently. Each academic division's records schedule shall specify the documents, form or medium in which these records will be maintained.

(c) Official student academic records preserved in the University Archives because of their archival value shall be the responsibility of researchers authorized by the University seventy-five years after a student has ceased to be registered.

6. The University's responsibilities with reference to the official academic records of students, alumni and former students

(a) Students shall be informed of University policy and divisional procedures with respect to their official student academic records.

(b) Academic divisions, administrative divisions which handle student academic records and campus organizations shall develop administrative procedures in support of this policy.

(c) Academic records shall be kept at all times under appropriate security.

University grading practices policy

The following is the text of the University grading practices policy. Text enclosed in square brackets [ ] has been added to clarify or interpret the policy as it applies to Scarborough College.

Purpose

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

(a) that grading practices throughout the University reflect appropriate academic standards;

(b) that the evaluation of student performance is made in a fair and objective manner against these academic standards;

(c) that grade scales, while remaining related to the particular circumstances of every division, are compatible with each other;

(d) that the academic standing of every student can be accurately assessed even when courses have been taken in different divisions of the University and evaluated according to different grade scales.

Application of policy

The Policy applies to all individuals and committees taking part in the evaluation of student performance in degree, diploma, and certificate credit courses (hereafter referred to as courses), excluding courses in the School of Graduate Studies.

Amendments to policy

Amendments to the Policy shall be recommended to the Academic Board.

Changes to the divisional regulations on grading practices shall be forwarded to the Committee on Academic Policy and Programs.

Grading of courses

Grades are a measure of the performance of a student in individual courses. Each student shall be judged on the basis of how well he or she has command of the course materials.

Grades assigned in a course is not an assessment of standing within a program of studies. To determine the requirements for credit and standing as a program of studies, the academic regulations of the division in which the program is offered shall be consulted.

Grades for each course shall be assigned with reference to the following meanings (which may be expanded in the divisional regulations under Part III):

Excellent, 
Good, 
Adequate, 
Marginal, 
Inadequate, 
Wholly inadequate.

Scale grades

Once a judgement on the performance of the student has been made, the following grade scales may be used in accordance with divisional practice:

(a) a comparable letter grade scale;

(b) the numerical scale of marks; and/or

(c) the scale Honours/Pass/Fail and Credit/No Credit.

For the scale used at Scarborough College, see page 233.

Grades vs. scores

Grades should always be based on the approved grade scales. However, students may find that on any one evaluation they may receive a numerical or letter mark that reflects the score achieved on the test or essay. The cumulative scores may not be directly identified with the final grade. Grades are final only after review by the divisional review committee described below.

A table of correspondence and a translation table are defined in the Appendix for each of the letter grade scales referred to in 1.3(a) in order to allow the conversion, when necessary, of a grade assigned from one scale to the corresponding grade in another. It should be noted that these tables are not to be used to translate a score to a grade directly.

Grading reporting

16 Only one letter scale, as referred to in 1.3(a) may be used in a division for assigning grades, but the numerical scale and the (100), and CRINER scales, as referred to in 1.3(b) and (c) respectively, may also be used. The grades assigned in a course, however, must all be from the same scale.

17 Grades in each course shall be assigned according to the practices of the division offering the course.

18 Grades in each course shall be reported according to the practices of the division administering the program in which the student is registered (the reporting division).

(a) Grades shall be reported as assigned when the division offering the course is also the reporting division, when the offering and reporting divisions use the same grade scale, and when the grades are assigned for the first time.

(b) In all other cases, grades shall be reported as converted to the scale used by the reporting division, and the conversion shall be made according to the tables of correspondence and translation tables defined in the Appendix.
2.4. University Grading Practices Policy

2.4.1. General Criteria

(a) With the exception of IPPFL, and CR/NCR scales, two different letter grade scales may not be used on the same transcript.

(b) A grade not reported in the form originally assigned by the offering division may be requested, the assignment of non-grade symbols for course work, classroom procedures and approved methods of evaluation.

(c) Review, adjust and approve course grades recommended by instructors. The grades recommended for any student in the professional faculty may be adjusted according to his or her performance in the course or progress as determined by the instructor. The divisional committee has the final responsibility for assigning the official course grade.

2.4.2. Classroom Procedures

To ensure that the method of evaluation in every course reflects appropriate academic standards and fairness to students, divisional regulations governing classroom procedures must be consistent with the procedures below:

(a) As early as possible in each course, the instructor shall provide written, clear, and complete instruction concerning the methods by which student performance will be evaluated. This should include whether the methods of evaluation shall be exams, tests, examinations, etc., the relative weight of these methods in relation to the overall course, and the timing of each major evaluation.

(b) After the methods of evaluation have been made known, the instructor may not change them or impose new weight without the consent of at least a simple majority of the students enrolled in the course. Any changes to be reported to the division or the department.

(c) Student performance in a course shall be assessed on more than one occasion. No one exam, test, examination, etc., should have a value of more than 90% of the grade. Criteria for exemption may be determined by the division.

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2.4.3. Examination Dates

(a) Exams for the final exam period are set by the University Exam Schedule Committee.

(b) All exams shall be scheduled according to the established Exam Schedule.

(c) Students are expected to attend all exams and will be asked to bring their student ID at the time of the exam.

2.4.4. University Grading Practices Policy

2.4.4.1. General Criteria

(a) With the exception of IPPFL, and CR/NCR scales, two different letter grade scales may not be used on the same transcript.

(b) A grade not reported in the form originally assigned by the offering division may be requested, the assignment of non-grade symbols for course work, classroom procedures and approved methods of evaluation.

(c) Review, adjust and approve course grades recommended by instructors. The grades recommended for any student in the professional faculty may be adjusted according to his or her performance in the course or progress as determined by the instructor. The divisional committee has the final responsibility for assigning the official course grade.

2.4.4.2. Classroom Procedures

To ensure that the method of evaluation in every course reflects appropriate academic standards and fairness to students, divisional regulations governing classroom procedures must be consistent with the procedures below:

(a) As early as possible in each course, the instructor shall provide written, clear, and complete instruction concerning the methods by which student performance will be evaluated. This should include whether the methods of evaluation shall be exams, tests, examinations, etc., the relative weight of these methods in relation to the overall course, and the timing of each major evaluation.

(b) After the methods of evaluation have been made known, the instructor may not change them or impose new weight without the consent of at least a simple majority of the students enrolled in the course. Any changes to be reported to the division or the department.

(c) Student performance in a course shall be assessed on more than one occasion. No one exam, test, examination, etc., should have a value of more than 90% of the grade. Criteria for exemption may be determined by the division.

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2.4.5. Examination Dates

(a) Exams for the final exam period are set by the University Exam Schedule Committee.

(b) All exams shall be scheduled according to the established Exam Schedule.

(c) Students are expected to attend all exams and will be asked to bring their student ID at the time of the exam.

2.4.6. University Grading Practices Policy

2.4.6.1. General Criteria

(a) With the exception of IPPFL, and CR/NCR scales, two different letter grade scales may not be used on the same transcript.

(b) A grade not reported in the form originally assigned by the offering division may be requested, the assignment of non-grade symbols for course work, classroom procedures and approved methods of evaluation.

(c) Review, adjust and approve course grades recommended by instructors. The grades recommended for any student in the professional faculty may be adjusted according to his or her performance in the course or progress as determined by the instructor. The divisional committee has the final responsibility for assigning the official course grade.

2.4.6.2. Classroom Procedures

To ensure that the method of evaluation in every course reflects appropriate academic standards and fairness to students, divisional regulations governing classroom procedures must be consistent with the procedures below:

(a) As early as possible in each course, the instructor shall provide written, clear, and complete instruction concerning the methods by which student performance will be evaluated. This should include whether the methods of evaluation shall be exams, tests, examinations, etc., the relative weight of these methods in relation to the overall course, and the timing of each major evaluation.

(b) After the methods of evaluation have been made known, the instructor may not change them or impose new weight without the consent of at least a simple majority of the students enrolled in the course. Any changes to be reported to the division or the department.

(c) Student performance in a course shall be assessed on more than one occasion. No one exam, test, examination, etc., should have a value of more than 90% of the grade. Criteria for exemption may be determined by the division.

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2.4.7. Examination Dates

(a) Exams for the final exam period are set by the University Exam Schedule Committee.

(b) All exams shall be scheduled according to the established Exam Schedule.

(c) Students are expected to attend all exams and will be asked to bring their student ID at the time of the exam.

2.4.8. University Grading Practices Policy

2.4.8.1. General Criteria

(a) With the exception of IPPFL, and CR/NCR scales, two different letter grade scales may not be used on the same transcript.

(b) A grade not reported in the form originally assigned by the offering division may be requested, the assignment of non-grade symbols for course work, classroom procedures and approved methods of evaluation.

(c) Review, adjust and approve course grades recommended by instructors. The grades recommended for any student in the professional faculty may be adjusted according to his or her performance in the course or progress as determined by the instructor. The divisional committee has the final responsibility for assigning the official course grade.

2.4.8.2. Classroom Procedures

To ensure that the method of evaluation in every course reflects appropriate academic standards and fairness to students, divisional regulations governing classroom procedures must be consistent with the procedures below:

(a) As early as possible in each course, the instructor shall provide written, clear, and complete instruction concerning the methods by which student performance will be evaluated. This should include whether the methods of evaluation shall be exams, tests, examinations, etc., the relative weight of these methods in relation to the overall course, and the timing of each major evaluation.

(b) After the methods of evaluation have been made known, the instructor may not change them or impose new weight without the consent of at least a simple majority of the students enrolled in the course. Any changes to be reported to the division or the department.

(c) Student performance in a course shall be assessed on more than one occasion. No one exam, test, examination, etc., should have a value of more than 90% of the grade. Criteria for exemption may be determined by the division.

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2.4.9. Examination Dates

(a) Exams for the final exam period are set by the University Exam Schedule Committee.

(b) All exams shall be scheduled according to the established Exam Schedule.

(c) Students are expected to attend all exams and will be asked to bring their student ID at the time of the exam.
II.3 Procedures in the event of disruptions

Principle
The following principles shall apply in the event of disruption of the academic program:
(i) The academic integrity of academic programs must be maintained;
(ii) Students must be treated in a fair manner recognizing their freedom of choice to attend class or not without penalty.

Procedures
(a) The Vice-President and Provost, or the Academic Board, shall declare when a disruption of the academic program has occurred. The Provost shall take steps to inform the University community at large of the changes to be implemented, and will report to the Committee on Academic Policy and Programs regarding the implementation of the procedures and changes to the status of the academic programs.
(b) Individual instructors or multi-section co-ordinators responsible for courses that are disrupted shall determine, as the disruption proceeds, whether any changes to classroom procedures are needed to complete the course.
(c) Changes to the classroom procedures should, where possible, first be discussed with students prior to the class in which a vote of the students present on the proposed changes is to be taken.
(d) Changes agreed upon by consensus should be forwarded to the department or division with a report on the attendance at the class where the vote was taken.
(e) Where consensus on changes has not been arrived at, or where a vote is not feasible, the instructor, after the discussion, will provide the division head or chair of the department in multi-departmental faculties with his or her recommendation, along with the results of any classroom votes. The chair or division head shall then make a decision.
(f) Where classes are not able to convene, the instructor, with the prior approval of the chair or multi-departmental faculty, may make changes deemed necessary to the classroom procedures. In the absence of the instructor, such changes will be made by the divisional head and require the approval of the Provost. Where courses are to be cancelled, approval of the divisional council is required. If the divisional council cannot meet, approval of the division head, or in the absence of the division head, the approval of the Provost, is required.
(g) Students must be informed of changes to classroom procedures. This may be done by circulating the changes in writing to the class, posting in the departmental and faculty offices, reporting to the divisional council, as well as listing in the campus press. Should classes resume students must be informed, at class, of any changes made during the disruption.
(h) Where a declared disruption occurs in a specific course after the last day to drop courses for the academic term or session, students who do not wish to complete the course(s) during that term or session, may, prior to the last day to withdraw without academic penalty. Students who withdraw from a course prior to the last day of classes as a result of a declared disruption shall receive a refund of the course tuition fee.
(i) Where students have not attended classes that are meeting, they nevertheless remain responsible for the course work and meeting course requirements. However, where possible, reasonable extension of deadlines for the course requirements, or provision of make-up tests shall be made and reasonable alternative access to material covered should be provided.

II.4 Assessment in clinical and field settings

Divisions may make reasonable exceptions to the classroom procedures described above in circumstances such as field or clinical courses, where adherence to these procedures is not possible. Nevertheless, it is obligatory that the assessment of the performance of students in clinical or field settings should be fair, humane, valid, reliable, and in accordance with the principles enunciated in the University Grading Practices Policy. Accordingly, where student performance is in a clinical or field setting is to be assessed for credit, the evaluation must encompass as a minimum:
(a) A formal statement describing the evaluation process, including the criteria to be used assessing the performance of students and the appeal mechanisms available. This statement should be available to all students before or at the beginning of the clinical experience;
(b) A mid-term performance evaluation with feedback to the student;
(c) Written documentation of the final assessment. In addition, for such clinical and field experiences, divisions must ensure that:
(d) Clinical and field assessments are fully informed regarding University, divisional and course policies concerning evaluation procedures, including the specifics of assessment procedures to be applied in any particular field or clinical setting. Any exceptions from the above would require a divisional request with explanation for approval by the Governing Council.

II.5 Grade review and approval process [The Divisional Review Committee of Scarborough College is the Sub-Committee on Marks Review.]

The following principles and procedures shall govern the grade review and approval process:
(a) The distribution of grades in any course shall not be predetermined by a system of quotas that specifies the number or percentage of grades allowable at any grade level.
(b) However, a division may provide broad limits to instructors setting a reasonable distribution of grades in the division or department. Such broad limits shall recognize that considerable variance in class grades is natural. The division may request an explanation of any grades for a course that exceed the limits and hence appear not to be based on the approved grade scales or otherwise appear anomalous in reference to the Policy. It is understood that this section shall only be used when the class size is thirty students or greater. Each division shall make known in the divisional Calendar the existence of any such limits.
(c) The Divisional Review Committee shall employ in its evaluation whether the instructor has followed the University Grading Practices Policy. The Review Committee shall not normally adjust grades unless the consequences of allowing the grades to stand would be injurious to the standards of the University, or, only in the case of individual students.
(d) Membership on the Divisional Review Committee may include students who are not members of the divisional appeals committee(s).
(e) Where grades have been adjusted by a divisional committee, the students as well
Examinations

8.6 Student access to examination papers
(a) All divisions should provide access to copies of the previous year's final examination papers where feasible. Exemptions may be granted by an appropriate committee of the division or department.
(b) All divisions should provide students with the opportunity within a reasonable time to review their examination paper where feasible. A recovery fee should be set to cover administrative costs including photocopying.
(c) All divisions should provide, in addition to the customary re-reading of papers and the re-checking of marks, the opportunity for students to petition for the re-reading of their examination where feasible. A cost recovery fee should be set and returned where appropriate.

[For further details, please refer to "Procedures for requesting special consideration, petitions, and appeals" (page 249).]

8.7 Conflict of interest
Where the instructor or a student has a conflict of interest, or is in a situation where a fair and objective assessment may not be possible, this should be disclosed to the chair or dean of the division to which the student is assigned. The chair or dean may take steps to ensure fairness and objectivity.

Examinations

Examinations are held at the end of both terms in 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 are permitted to leave an examination room during the day may be required to write evening examinations, and students taking evening courses may be required to write day examinations.

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Examination timetable conflicts
Students scheduled to write examinations at the same time should request the Assistant Registrar (Registrar and Scheduling) (Room 3420A, (416) 287-7540). Arranging for two examinations at the same time should be avoided. Where the conflict involves a St George Campus course, arrangements will normally be made for both examinations to be written at Scarboro College. 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 Assistant Registrar (Registrar and Scheduling) no later than two full weeks before the commencement of examinations. Requests will not be considered after that time.

Special consideration regarding examinations
Students requesting special consideration because they are unable to write a final examination must submit a petition through the Office of the Registrar no later than the last day of the examination period. Petitions must be accompanied by a medical certificate or other appropriate supporting evidence. Please refer to the information concerning petitions and medical certificates (page 249).

Identification cards
Students will be required to identify themselves at examinations by means of their University of Toronto photo identification card. Students who do not have this card should arrange to obtain one at least one week in advance of the day of their first examination.

Examination room regulations
1. All students are advised to read the section of this Calendar titled "Code of Conduct on Academic Honesty" before writing examinations.
2. Students are advised to arrive at the examination room at least fifteen minutes before the scheduled examination time. Invigilators will begin the actual examination at the scheduled time.
3. No person will be allowed in an examination room during an examination unless the students writing the examination and those supervising it.
4. Candidates shall bring their photo identification cards and place them in a conspicuous place on their desks.
5. Students registered in other Faculties or Colleges of the University bring their student cards.
6. Bags and books are to be deposited on a table designated by the invigilator.
7. No materials are to be taken to the examination desk or table. Students may dispose of their pens by placing them, closed, on the table.
8. The invigilator has the authority to assign seats to candidates.
9. No materials are to be left in the examination room or used at an examination except those authorized by the Chair of the Department or Examiner.
10. Candidates shall not communicate with one another in any manner whatsoever while the examinations are proceeding.
11. Candidates bringing any unauthorized material into an examination room or who assist, or obtain assistance from other candidates or from an unauthorized source, are liable to be refused admission to the remaining part of the examination or any subsequent examinations. Such candidates are also liable to the loss of academic credit for the examination, or to expulsion from the university.
12. Candidates shall not be permitted to leave the examination room except under supervision at least half an hour after the examination has commenced.
13. Candidates shall not leave the examination room within the final ten minutes of the examination, which time they shall remain quietly seated at their desks.
14. At the conclusion of an examination all writing within the examination room shall cease. The invigilator may refuse to accept the papers of candidates who fail to observe this requirement.
15. Examination books and other material issued for the examination shall not be removed from the examination room without the written permission of the invigilator.
16. Smoking is not permitted in the examination rooms.
Procedures for requesting special consideration, petitions and appeals

Petitions for exceptions to the academic regulations

1. Students may request that an exception to an academic regulation be made in their case. Such a request takes the form of a petition to the Scarborough College Sub-committee on Standing.

2. To enter a petition, the student prepares a written statement stating clearly the special considerations requested, stating clearly the grounds upon which special consideration is requested, that is, the reasons why the student believes an exception to the rules is appropriate in this particular case; and appending documents to evidence special circumstances: medical certificates, etc.

3. Students who wish to submit medical certificates in support of their petitions must ask their physicians:
   - to verify that the student was examined at the time of the illness;
   - to state the degree of disability involved;
   - to indicate the duration of the debility caused by the illness; and
   - to indicate the physician's professional opinion as to whether the student should receive special consideration with his or her academic work on medical grounds.

4. Students are encouraged to seek advice from counsellors in Counselling Services before entering a petition.

5. Students are notified in writing of the Sub-committee's decision on their petition.

Requests for special consideration in a course

Term work

1. Students who are unable to write a term examination, or whose performance is adversely affected by illness or other extraneous circumstances, or who are unable (for these reasons) to submit term assignments by instructors' deadlines, must (except as noted below) speak with their instructors as soon as possible to request special consideration.

Students who wish to appeal the decision of their instructor with respect to a request for special consideration, must, as soon as possible, speak with or write to the Chair of the Division offering the course.

2. When students' medical problems or other extraneous circumstances occur towards the end of the term, and where they must request extensions of time to write make-up term examinations after the last day for submission of term work (shown in the 'Academic Calendar' section of this Calendar), students must submit a formal petition to the Sub-committee on Standing. The petition must be submitted as soon as possible and no later than the last day of the relevant examination period.

Final examinations

1. Students who, for reasons of illness or other extraneous circumstances, are unable to write a final examination, may request special consideration by means of a petition to the Sub-committee on Standing. Such petitions must be submitted as soon as possible and no later than the last day of the examination period.

2. When an examination has been missed because of illness, a student who requests special consideration must submit a medical certificate (see Petitions, above) certifying in addition that:
   - the student was incapable of attempting the examination at the scheduled time.

3. When an examination has been missed because of illness, a student who requests special consideration must submit a medical certificate (see Petitions, above) certifying that the student was incapable of
   - attempting the examination at the scheduled time.

4. Where students suffer illness or domestic affliction that does not prevent them from attempting an examination, or whose performance is adversely affected by illness or other extraneous circumstances, or who are unable (for these reasons) to submit term assignments by instructors' deadlines, must (except as noted below) speak with their instructors as soon as possible to request special consideration.

Students who wish to appeal the decision of their instructor with respect to a request for special consideration, must, as soon as possible, speak with or write to the Chair of the Division offering the course.

A petition, students will normally be permitted to write a special examination. Students who are concerned that their performance may be affected by illness should visit a physician on the day of the examination to obtain both medical guidance and a medical certificate that may be submitted if a petition proves to be necessary. Petitions of this nature should be entered as soon as possible, but no later than:

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4. Where students suffer illness or domestic affliction that does not prevent them from attempting an examination, or whose performance is adversely affected by illness or other extraneous circumstances, or who are unable (for these reasons) to submit term assignments by instructors' deadlines, must (except as noted below) speak with their instructors as soon as possible to request special consideration.

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4. Where students suffer illness or domestic affliction that does not prevent them from attempting an examination, or whose performance is adversely affected by illness or other extraneous circumstances, or who are unable (for these reasons) to submit term assignments by instructors' deadlines, must (except as noted below) speak with their instructors as soon as possible to request special consideration.

Students who wish to appeal the decision of their instructor with respect to a request for special consideration, must, as soon as possible, speak with or write to the Chair of the Division offering the course.
Special Consideration, Petitions and Appeals 251

or another term assignment, must speak with the course instructor as soon as possible, and certainly before the end of term.

Students who wish to appeal the decision of an instructor with respect to the grading of term work may speak with or write to the Chair of the Division offering the course.

Students who wish to appeal their grade on term work returned to students only after the end of term (that is, after the instructor submitted grades for the course), may enter a formal petition to the Sub-committee on Standing. See above for information about the petition procedure. Petitions must be entered within six months of the final examination period and will be treated in the same way as requests for re-reading of a final examination (see below).

Final examinations

1. Students may request from the Office of the Registrar a photocopy of their final examinations within six months of the relevant examination period. A copying fee is required at the time of the request.

2. If the students have seen the photocopy of their final examination but within six months of the relevant examination period, they may submit a petition to the Sub-committee on Standing to request re-reading of their final examinations. The Sub-committee will authorize a re-reading only if a student:
   - has articulated clear grounds for reconsideration of some part of the examination, addressing the substance of the answer in relation to the mark given or, in otherwise identifying the nature of the alleged misvaluation.
   - has demonstrated that the alleged misvaluation is of a substantial nature: that is, that, in an objective answer, a correct response has been counted as incorrect or vice versa, in a subjective or essay answer, the response has been under- or over-valued substantially.
   - If an error is discovered and the mark is changed, the copying fee will be refunded.

3. Where the Sub-committee on Standing authorizes re-reading of any examination or term of work, it is the responsibility of the Division offering the course to arrange the re-reading and to authorize any change in the grade. It has been the usual practice in the Divisions to have examinations or term work re-read by the course instructor, unless some convincing argument is put forward by the student that the work be re-read by another member of the faculty. Claims of prejudice must be supported by a detailed account of incidents and, if possible, confirmation from a third party.

4. Where the Sub-committee on Standing authorizes re-reading of an examination or item of term work, the amended grade will stand, whether it is higher or lower than the original grade.

5. Instructors are required to re-read the final examinations (if any) and to recheck the calculation of term and final marks before submitting a failing grade for any student.

Petitions concerning grading practices in a course

1. Students who believe an instructor has violated a rule of the Grading Practices Policy are expected to discuss this complaint with the instructor at once.

2. If this discussion does not yield a satisfactory resolution to the problem, students may appeal the decision of the instructor to the Chair of the Division offering the course.

3. If the appeal does not yield a satisfactory resolution to the problem, students may appeal the decision of the Division to the Principal of the University.

4. Students who wish to withdraw from a course without receiving a grade or without academic penalty on the grounds that the Division will not allow them to take the course must first contact the Registrar's Office to determine whether the student is allowed to withdraw from the course.

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6. Students who wish to withdraw from a course without receiving a grade or without academic penalty on the grounds that the Division will not allow them to take the course must first contact the Registrar's Office to determine whether the student is allowed to withdraw from the course.

Petitions to correct errors in course registration or for withdrawal from courses

1. If an error in the registration or withdrawal from courses should be corrected as early as possible and no later than:
   - 30 days after Winter Semester courses
   - 30 September for Summer courses

Academic appeals

Students may appeal a decision of the Sub-committee on Standing to the Sub-committee on Academic Appeals. All appeals to the Sub-committee on Academic Appeals must be commenced no later than six months after the decision (to be appealed)

Code of Behaviour on Academic Matters 251

Preamble

The Code of Behaviour on Academic Matters is intended to set forth the expectations of the teaching and learning community. Honesty and fairness must be the touchstone of this relationship, based on a mutual respect for the aims and expectations and for those ethical principles that must characterize the pursuit of knowledge in the University.

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

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

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

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

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

B. Offences

The University and its members have a responsibility to ensure that a climate that might encourage, or conditions that might enable, cheating, misrepresentation or unfairness not materialized to. To this end all must acknowledge that seeking credit or other advantages by fraud or misrepresentation, or seeking to disadvantage others by disruptive behaviour is unacceptable, that lying, cheating, dishonesty or unfairness in dealing with the work of or record of a student.

B. Offences

1. It shall be an offence for a student intentionally:
   (a) to forge or in any other way alter or falsify any document or evidence relevant to admission to the University, or to utter, circulate or make use of any such forged, altered or falsified document, whether the record be in print or electronic form;
   (b) to use or possess an unauthorized aid or aids or obtain unauthorized assistance in any academic examination or term test or in
connection with any other form of academic work; (c) to persuade another person at any academic examination or term test or in connection with any other form of academic work; (d) to represent one's own any idea or expression of an idea or work of another in any academic examination or term test or in connection with any other form of academic work, i.e. to commit plagiarism: "plagiarism". The present sense of plagiarism is contained in the original (1923) meaning in English: "the wrongful appropriation and publishing, and publication as one's own, of the ideas, or the expression of the ideas ... of another." This most common, and frequently most elusive of academic infractions is normally associated with student essays. Plagiarism can, however, also threaten the integrity of radio and television, laboratory and lecture hall. Plagiarism is at once a perversion of originality and a denial of the interdependence and mutuality which are the heart of scholarship itself, and hence of the academic experience. Instructors should make clear what constitutes plagiarism within a particular discipline.

(e) to submit for credit, without the knowledge and approval of the instructor to whom it is submitted, any academic work which credit has previously been obtained or is being sought in any course or programme of study in the University or other institution;

(f) to submit for credit any academic work containing a statement of fact or reference to a source which has been concocted.

2. It shall be an offence for a faculty member intentionally:
(a) to approve any of the previously described offences;
(b) to evaluate an application for admission or promotion to a course or programme of study by other than duly established and published criteria;
(c) to evaluate academic work by a student by reference to any criterion that does not relate to its merit, in the time within which it is to be submitted or to the manner in which it is to be performed.

3. It shall be an offence for a faculty member and student alike intentionally:
(a) to forge or in any other way alter or falsify any academic record or work, or in unity, circulate or make use of any such forged, altered or falsified record, whether the record be in print or electronic form;
(b) to cause by action, threat or otherwise in a classroom, laboratory or examination room a disturbance, which the member knows or ought reasonably to know, obstructs the teaching of a course or the holding of a test or examination.

4. The following are offences to the extent that they relate to the teaching and learning relationship. It shall be an offence for a faculty member and student alike intentionally:
(a) to remove or copy or alter stored information such as books, films, data files or programs from a library, computer or other information storage, processing or retrieval system or its peripheral communications device without proper authorization; or to manipulate, misplace, misfile, install or render inoperable any such information, program, system or device or in any other way to deprive immediately or at some point in the future without notice, another member or members from using or having access to any such resource;
(b) to use in a substantial way any information storage, processing or retrieval facility such as a library, computer, telephone, network or telecommunications system, fax machine or photocopying equipment, or similar equipment, for any other purpose than that for which the resources were or could have been provided;
(c) to use any University computer, library, or other information storage, processing or retrieval system or any personal academic file without proper authorization.

5. A graduate of the University may be charged with any of the above offences committed intentionally while he or she was an active student, when, in the opinion of the Provost, the offence, if detected, would have reached a sanction sufficiently severe that the degree would not have been granted at the time that it was.

5.4. Particular Offences
(a) Every member is a party to an offence under this Code who intentionally:
(i) actually commits it;
(ii) does or omits to do anything for the purpose of assisting another member to commit the offence;
(iii) does or omits to do anything for the purpose of aiding or assisting any other person who, if that person were a member, would have committed the offence;
(iv) abets, counsels, procures or compels another member to commit or be a party to an offence;
(v) abets, counsels, procures or compels another person who, if that person were a member, would have committed or have been a party to the offence.

(b) Every party to an offence under this Code is liable upon admission of the commission thereof, or upon conviction, as the case may be, to the sanctions applicable to that offence.

5.5. Every member who, having an intent to commit an offence under this Code, does or omits to do anything for the purposes of carrying out that intention (other than mere preparation to commit the offence), is guilty of an attempt to commit the offence and liable upon conviction to the same sanctions as if he or she had committed the offence.

5.6. When a group is found guilty of an offence under this Code, every officer, director or agent of the group, being a member of the University, who directed, authorized or permitted any act that caused the commission of the offence is a party to and guilty of the offense. The University is liable upon conviction to the sanctions provided for the offence.

C. Procedures in cases involving students
At both the divisional level and the level of the University Tribunal, procedures for handling charges of academic offences involving students reflect the gravity with which the University views such offences. At the same time, these procedures and those which ensure students the right of appeal represent the University's commitment to fairness and the cause of justice.

1. No hearing within the meaning of Section 2 of the Statutory Powers Procedure Act is required for the purposes of, or in connection with, any of the discussions, meetings and determinations referred to in Section C.1(a) and (b), and such discussions, meetings and determinations are not proceedings of the Tribunal.

2. Where an instructor has reasonable grounds to believe that an academic offence has been committed by a student, the instructor shall inform the student immediately after learning of the act or conduct complained of, giving reasons, and invite the student to attend a meeting with the student. If at such meeting the student does not agree to the issues, a hearing shall be held in accordance with subsection 3.

3. In order to conduct a hearing, the instructor shall determine that there are reasonable grounds to believe that an academic offence has been committed by the student. The instructor shall notify the student of the charges and of the hearing, and give the student an opportunity to be present at the hearing.

4. If after such hearing the instructor is satisfied that an academic offence has been committed by the student, or if the student fails or neglects to respond to the invitation for discussion, the instructor shall make a report of the matter to the department chair.
5. When the dean [Vice Principal and Associate Dean] or the department chair, as the case may be, has no information, he or she shall notify the student in writing accordingly, provide him or her with a copy of the Code and subsequently afford the student an opportunity for discussion of the matter. In the case of the dean [Vice Principal and Associate Dean] being informed, the chair of the department and the instructor shall be invited by the dean [Vice Principal and Associate Dean] to be present at the meeting with the student. The dean [Vice Principal and Associate Dean] shall conduct the interview.

6. Before proceeding with the meeting, the dean [Vice Principal and Associate Dean] shall inform the student that he or she is entitled to seek advice or to be accompanied by counsel at the meeting, before making, and is not obliged to make, any statement or admission, but shall warn that he or she makes any statement or admission in the meeting, it may be used or recoverable in evidence against the student in the hearing of any charge with respect to the offence or alleged offence in question. The dean [Vice Principal and Associate Dean] shall also advise the student, without further comment or discussion, of the sanctions that may be imposed under Section C.1.(b) and that the dean [Vice Principal and Associate Dean] is not obliged to impose a sanction but may instead request that the Provost lay a charge against the student. Where such advice and warning have been given, the statements and admissions, if made in such a meeting may be used or recovered in evidence against the student in any such hearing.

7. If the dean [Vice Principal and Associate Dean], on the advice of the department chair and the instructor, as the case may be, holds that the department chair, on the advice of the instructor, subsequently decides that no academic offence has been committed and that no further action in the matter is required, the student shall be so informed in writing and the instructor's work shall be accepted for normal evaluation or, if the student was prevented from withdrawing from the course by the withdrawal date, he or she shall be allowed to do so. Thereafter, the matter shall not be introduced into evidence at a Tribunal hearing for another offence.

8. If the student admits the alleged offence, the dean [Vice Principal and Associate Dean] or the department chair may either impose the sanction that he or she considers appropriate under Section C.1.(b) or refer the matter to the dean [Vice Principal and Associate Dean] or Provost, as the case may be, and in either event shall inform the student in writing accordingly. No further action in the matter shall be taken by the instructor, the department chair or the dean [Vice Principal and Associate Dean] if the dean [Vice Principal and Associate Dean] imposes a sanction.

9. If the student is dissatisfied with a sanction imposed by the department chair or the dean [Vice Principal and Associate Dean] or Provost, as the case may be, the student may refer the matter to the dean [Vice Principal and Associate Dean] or Provost, as the case may be, for reconsideration.

10. If the student does not admit the alleged offence, the dean [Vice Principal and Associate Dean] may, after consultation with the instructor and the department chair, request that the Provost lay a charge against the student. If the Provost agrees to lay a charge, the case shall then proceed to the Trial Division of the Tribunal.

11. Normally, decanal procedures will not be examined in a hearing before the Tribunal. A failure to carry out the procedures referred to in this Section, or any other irregularity in such procedures, shall not invalidate any subsequent proceedings carried before the Tribunal, unless the chair of the hearing considers that such failure, defect or irregularity resulted in a substantial wrong, detriment or prejudice to the accused. The chair will determine at the opening of the hearing whether there is going to be any objection to defect, failure or irregularity.

12. No degree, diploma or certificate of the University conferred for a course of instruction awarded, nor shall a student be allowed to withdraw from a course from the time of the alleged offence until the final disposition of the accusation. However, a student shall be permitted to use University facilities while a decision is pending, unless there are valid reasons for the dean [Vice Principal and Associate Dean] to bar him or her from a facility. A student upon whom a sanction has been imposed by the dean [Vice Principal and Associate Dean] or the department chair under Section C.1.(b) or who has been convicted by the Tribunal shall not be allowed to withdraw from a course so as to avoid the sanction imposed.

13. A record of cases disposed of under Sections C.1.(a) and of the sanctions imposed shall be kept in the academic unit concerned and may be referred to by the dean [Vice Principal and Associate Dean] in connection with a decision to prosecute, or by the prosecution in making representations as to the sanction or sanctions to be imposed by the Tribunal, for any subsequent offence committed by the student. Information on such cases shall be available to other academic units upon request and such cases shall be reported by the dean [Vice Principal and Associate Dean] to the Secretary of the Tribunal for use in the Provost's annual report to the Academic Board. The dean [Vice Principal and Associate Dean] may direct the Secretary of the Tribunal for advice or for information on cases disposed of under Section C.1. hereof.

14. Where a provost or invigilator, who is not a faculty member, acts to determine that an academic offence has been committed by a student at an examination or test, the provost or invigilator shall inform the student in writing of the alleged academic offence and the alleged violation of the code as the case may be, which shall proceed to the Academic Board for determination. The Academic Board may direct the Secretary of the Tribunal for advice or for information on cases disposed of under Section C.1. hereof.

15. In the case of alleged offences not covered by the above and not involving the submission of academic work, such as those concerning, but not limited to, violation of copyright or plagiarism, violation of academic or student conduct rules, violation of the Academic Code, or violation of the Code of Behaviour on Academic Matters, the procedure shall be regulated by analogy to the other procedures of this section.

C.1(b) Divisional Sections

1. In an assignment worth 10 percent or less of the final grade, the department chair may handle the matter as:
   (i) the student admits guilt; and
   (ii) the assignment of a penalty is limited to a mark of zero for the piece of work.

2. One or more of the following sanctions may be imposed by the dean [Vice Principal and Associate Dean] where a student admits to the commission of an offence:
   (a) a written reprimand;
   (b) a written reprimand and, with the permission of the instructor, the remission of the piece of academic work, in respect of which the offence was committed, for evaluation. Such a sanction shall be imposed only for minor offences and where the student has committed no previous offence;
   (c) assignment of a grade of zero or failure for the piece of academic work in respect of which the offence was committed;
   (d) assignment of a penalty in the form of a reduction of the final grade in the course in respect of which the offence was committed;
   (e) denial of privileges to use any facility of the University, including libraries and computer facilities;
   (f) a monetary fee to cover the costs of replacing damaged property or repair of property in respect of which the offence was committed;
   (g) suspension for the course in respect of which the offence was committed;
   (h) suspension from attendance in a course or courses, a program, an academic division or unit, or the University for a period of not more than twelve months. Where a student has not completed a course or courses in respect of which an offence has not been committed, withdrawal from a course or courses without academic penalty shall be allowed.
5. The dean shall have the power to record any sanction imposed on the student’s academic record and transcript for such length of time as he or she considers appropriate. However, the sanctions of suspension or a notation specifying academic misconduct as the reason for a grade of zero for a course shall normally be recorded for a period of five years.

4. The Provost shall, from time to time, indicate appropriate sanctions for certain offences. These guidelines shall be sent for information to the Academic Board and attached to the Code as Appendix "C".

C.B. (b) Tribunal Sanctions
1. One or more of the following sanctions may be imposed by the Tribunal upon the conviction of any student:
(a) a written reprimand;
(b) a written reprimand and, with the permission of the instructor, the resubmission of the piece of academic work, in respect of which the offence was committed, for evaluation. Such a sanction shall be imposed only for minor offences and where the student has committed no previous offence;
(c) assignment of a grade of zero or a failure for the piece of academic work in respect of which the offence was committed;
(d) assignment of a penalty in the form of a reduction of the final grade in the course in respect of which the offence was committed;
(e) denial of privileges to use any facility of the University, including library and computer facilities;
(f) a monetary fine to cover the costs of replacing damaged property or lost or misused supplies in respect of which the offence was committed;
(g) assignment of a grade of zero or a failure for any completed or uncompleted course or courses in respect of which any offence was committed;
(h) suspension from attendance in a course or courses, a program, an academic unit of the University, or the University for such a period of time up to five years as may be determined by the Tribunal. Where a student has been convicted of a course or courses in respect of which an academic penalty has been committed, withdrawal from the
course or courses without academic penalty shall be allowed;
(i) recommendation of expulsion from the University. The Tribunal has power only to recommend that such a penalty be imposed. In any such case, the recommendation shall be made by the Tribunal to the President for a recommendation by him or her to the Governing Council. Expulsion shall mean that the student shall be denied any further registration at the University in any programme and he or her academic record and transcript shall record permanently this sanction. Where a student has not completed a course or courses in respect of which an offence has not been committed, withdrawal from the course or courses without academic penalty shall be allowed. If a recommendation for expulsion is not adopted, the Governing Council shall have the power to impose such lesser penalty as it seems fit.
(j) recommendation to the Governing Council for cancellation, recall or suspension of one or more degrees, diplomas or certificates obtained by any graduate;
(k) cancellation of academic standing or academic credits obtained by any former student who, while enrolled, committed an offence which, if detected before the granting of the degree, diploma, certificate, standing or credits would, in the judgement of Tribunal, have resulted in a conviction and the application of a sanction sufficient to make severe that the degree, diploma, certificate, standing, credits or marks would not have been granted.

2. The jury shall have the power to order that any sanction imposed by the Tribunal be recorded on the student’s academic record and transcript for such length of time as the jury considers appropriate.

3. The Tribunal may, if it considers appropriate, report any case to the Provost for possible action as a result of the decision of the Tribunal and the

function or sanctions imposed in the University newspapers, with the name of the student withheld.

NOTE: The College 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 of so which models are approved. The use of an unauthorized calculator may be treated as an academic offence.

Code of Student Conduct

A. Preface
1. The University of Toronto is a large community of teaching staff, administrative staff and students, involved in teaching, research, learning and other activities. Students members of the University are adhered to a division of the University for the period of their registration in the academic program to which they have been admitted and as such assume the responsibilities that such registration entails.
2. As an academic community, the University governs the activities of its members by standards such as those contained in the Code of Behaviour on Academic Matters, which provides definitions of offences that may be committed by student members and which are deemed to affect the academic integrity of the University’s activities.
3. The University sponsors, encourages or tolerates many non-academic activities of its members, both on its campuses and away from them. These activities, although generally separate from the defined requirements of students’ academic programs, are a valuable and important part of the life of the University and of its students.
4. The University does not stand in loco parentis to its student members, that is, it has no general responsibility for the moral and social behaviour of its students, as if they were wards. In the exercise of its disciplinary authority and responsibility, the University treats students as free to organize their own personal lives, behaviour and associations subject only to the law and to University regulations that are necessary to protect the integrity and safety of University activities, the peaceful and safe enjoyment of University housing and facilities and of the University’s obligations to third parties.
5. University members are not, as such, immune from the criminal and civil laws of the wider political unit to which they belong. Provisions for non-academic discipline should not attempt to shelter students from their civic responsibilities nor add unnecessarily to these responsibilities. Conduct that constitutes a breach of the Criminal Code or other statute, or that would give rise to a civil claim or action, should ordinarily be dealt with by the appropriate criminal or civil court. In cases, however, in which criminal or civil proceedings have not been taken or would not adequately protect the University’s interests and responsibilities as defined below, proceedings may be brought under a discipline code of the University, but only in cases where such internal proceedings are appropriate in the circumstances.
6. The University must define standards of student behaviour and make provisions for student discipline with respect to conduct that jeopardizes the good order and proper functioning of the academic and non-academic programs and activities of the University or its divisions, that endangers the health, safety, rights or property of its members or visitors, or that adversely affects the property of the University or bodies related to it, with which the University has a defined purpose, adequately regulated by civil and criminal law.
7. Nothing in this Code shall be construed to prohibit peaceful assemblies and protests, lawful picketing, or to inhibit freedom of speech as defined in the Unions of Canada.
8. In this Code, the word “premises” includes lands, buildings and grounds.
9. In this Code, “student” means a member of the University who:
1) engaged in any academic work which leads to the recording and/or issue of a mark, grade or statement of performance by the appropriate authority in the University or any other institution; and/or
2) engaged in any academic course which entitles the member to the use of University library materials, library resources, computer facility or datasets.
10. In the following, the words "University of Toronto" refer to the University of Toronto and include any institutions federated or affiliated with it, where such inclusion has been agreed upon by the University and the federated or affiliated institution, with respect to the premises, facilities, equipment, services, activities, students and other members of the federated or affiliated institution.

11. In this Code, where an offence is described as depending on "knowing," the offence shall likewise be deemed to have been committed if the person ought reasonably to have known.

12. This Code is concerned with conduct that the University considers unacceptable. In the case of student members of the University, the procedures and sanctions described herein shall apply. In the case of other members of the University, such conduct is to be dealt with in accordance with the established policy, procedures and agreements that apply to the members.

B. Offences

The following offences constitute conduct that shall be deemed to be offences under this Code, when committed by a student of the University of Toronto, provided that such conduct:

i) has not been dealt with as failure to meet standards of professional conduct as required by a college, faculty or school; and

ii) is not specifically assigned to the jurisdiction of the University Tribunal, as in the case of conduct described in the Code of Behaviour on Academic Matters, or to another disciplinary body within the University of Toronto, as in the case of sexual harassment under the Policy and Procedures: Sexual Harassment; and

iii) occurs on premises of the University of Toronto or elsewhere in the course of activities sponsored by the University of Toronto or by any of its divisions.

1. Offences against persons

a) No person shall assault another person sexually or threaten any other person with sexual assault.

b) No person shall otherwise assault another person, threaten any other person, or knowingly cause any other person to fear bodily harm.

c) No person shall knowingly create a condition that unnecessarily endangers the health or safety of other persons.

d) No person shall threaten any other person with damage to such person's property, or knowingly cause any other person to fear damage to her or his property.

2. Disruption

No person shall cause by action, threat or otherwise, a disturbance that the member knows or should know is likely to cause interruption or disturbance to the normal activities of the student, to the University of Toronto or to any of its divisions, the right of another member or members to carry on their legitimate activities, to speak or to associate with others.

3. Offences involving property

a) No person shall knowingly take, destroy or damage premises of the University of Toronto.

b) No person shall knowingly take, destroy or damage any physical property that is not her or his own.

c) No person shall knowingly destroy or damage information or intellectual property belonging to the University of Toronto or to any of its members.

d) No person, in any manner whatsoever, shall knowingly deface the inside or outside of any building of the University of Toronto.

e) No person, knowing the effects or property to have been appropriated without authorization, shall possess, use or dispose of the property of the University of Toronto.

f) No person, knowing the effects or property to have been appropriated without authorization, shall possess any property that is not her or his own.

g) No person shall knowingly create a condition that unnecessarily endangers or threatens destruction of the property of the University of Toronto or of any of its members.

4. Unauthorized entry or presence

No person shall, contrary to the expressed instruction of a person or persons authorized to give such instruction, or with intent to cause damage or destroy the premises of the University of Toronto or damage, destroy or steal any property on the premises of the University of Toronto that is not her or his own, or without just cause knowingly enter or remain in or on any such premises.

5. Unauthorized use of University facilities, equipment or services

a) No person shall knowingly use any facility, equipment or service of the University of Toronto contrary to the express instruction of a person or persons authorized to give such instruction, or without just cause.

b) No person shall knowingly access to or use any University computing or internal or external communications facility to which legitimate authorization has not been granted. No person shall use any such facility for any commercial, disruptive or unauthorized purpose.

Appropriate use for University connections to external networks are described, for example, in the policy document "Appropriate Use Policy for the ONET Network.”

c) No person shall knowingly mutilate, misplace, misfile, or render unaccessible any stored information such as books, files, data files or programs from a library, computer or other information storage, processing or retrieval system.

6. False charges

No person shall knowingly or negligently bring a false charge against the student of the University of Toronto or any of its members.

7. Failure or refusal to comply with sanctions

Failure or refusal to comply with sanctions imposed under the Code shall result in extension of the sanctions imposed by the Code.

C. Hearing Procedures

Anyone who believes an offence under this Code has been committed, may initiate a complaint by bringing the matter to the attention of the principal of the college or dean of the faculty of the student who is alleged to have committed the offence.

D. Sanctions

The following sanctions or combinations of them may be imposed upon students found guilty of committing an offence under this Code.

Penalties that directly affect a student's registration in a program, such as suspension or the recommendation for expulsion, may be imposed only where it has been determined that the offence committed is of such a serious nature that the student's continued registration threatens the academic function of the University of Toronto or of any of its divisions or the ability of other students to continue their programs of study.

In addition, students found guilty may be placed on conduct probation for a period not to exceed one year, with the provision that one or more of the following sanctions will be applied if the conduct probation is violated:

1. Formal written reprimand

2. Order for restitution, rectification or the payment of damages

3. A fine or bond for good behaviour not to exceed $100

4. Requirement of public service work not to exceed 25 hours

5. Denial of access to specified services, activities or facilities of the University for a period of up to one year

6. Suspension from registration in any course or program of a division or division for a period of up to one year

7. Recommendation for expulsion from the University
Part-time Studies

All students, whether part-time or full-time, are subject to the same admission standards, are governed by the same rules and regulations, and are required to satisfy the same degree requirements.

It is true, however, that students whose outside commitments prevent them from coming to the College during the day may find that they have less access to services in the University (although the Registrar's Office is open from 8:00 am to 7:00 pm on class nights) and to the informal student network. Part-time students should try to make the time to develop contact with their fellow students and with faculty members, since this is an integral part of the University experience. When problems arise, evening students are encouraged to contact Counselling Services (416) 287-7550. Counselling Services does not have regular evening hours but evening counselling appointments can be arranged. In addition, the Association of Part-time Undergraduate Students (APUS) serves as the voice of part-time students in the University and can be a source of help.

Admissions to Scarborough College

The same admission standards are applied to both full-time and part-time students. More information on admission for mature students and application deadlines is in the Admissions section of this Calendar. Any questions or concerns can be addressed by contacting the Assistant Registrar - Admissions at (416) 287-7529.

Awards

Part-time students are considered for most awards and scholarships on the same basis as full-time students. Some special awards and bursaries for part-time students are available through APUS. For further information see the Awards section of this Calendar.

Academic Regulations and Degree Requirements

Part-time students are governed by the same regulations as any other student. Students are responsible for reading through the section of the Calendar dealing with Academic Regulations. When in doubt, students should contact the Office of the Registrar or Counselling Services for assistance in interpreting regulations and their applications in particular cases. We have listed below some regulations that seem of particular relevance to part-time students. However, this list is by no means exhaustive. It must be emphasized that all regulations apply to part-time students.

The fact that a particular requirement is optional does not mean that it will not apply. Part-time students are often more likely to find that degree or programme requirements change during the course. When changes occur, normally allowed, minimum for a period of time, to continue under the college's regulations. This does not usually apply to degree or programme requirements.

If the college attempts to exclude a student from courses as a result of their academic performance, the student should first contact their academic advisor to discuss the situation. The next step is to contact the Registrar's Office to discuss the appropriate appeal. Students should be aware that in some cases the appeals process may not allow them to avoid taking any action if the petition is denied.

The information provided is subject to change at the discretion of the Registrar's Office and is current at the time of publication.

Anthropology Specialist and Major Programme

Normally, one of the following core requirements is offered on a rotational basis: ANTH125, ANTH220, ANTE215 every year during the evening.

Economics Major Programme

Each of the four courses specifically required for the Economics Major [ECO400Y, ECO358, ECO390, ECO309Y] is offered in the evening at least once each year. ECO300Y and ECO358 are offered in both summer and winter evening sessions each year. ECO390Y and ECO358 are offered in each winter evening session, and one is usually offered in each summer session.

Each winter session, and in some summer sessions, at least one other course at the B, C, or D level is offered.

English Specialist and Major Programme

English courses are, as far as possible, cyclically offered as follows: ENGA11Y - every two years. ENGB11Y - every two years. ENGB21Y - every two years. ENGB21Y (ENC50Y) - every two years. Pre-1800 courses - at least one every two years. Post-1800 courses - at least one every year. D-level courses - usually 3 half-courses every year.

History Specialist and Major Programme

History courses are at least two offered every year.

Philosophy Specialist and Major Programme

POLA11Y offered in the evening every other year. PHIL101Y, PHIL102Y, PHIL103Y, PHIL104Y, PHIL105Y, PHIL106Y - two of these courses are usually offered every year.

Psychology Specialist and Major Programme

The following courses are normally offered annually in the evening and/or in the summer: PSY101Y, PSY102Y, and PSY107, all of which are required for both programmes. As well, all courses in each of the content areas and all D-level courses appear in the evening or summer on
Telephone Directory: frequently called numbers

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False colour satellite image of the western end of Lake Ontario and Lake Erie.
Provided by the Environmental Science Programme, Scarborough College.