University of Toronto
Scarborough

Calendar

"Always the university must foster the search for truth...it is the search for truth and not truth which keeps civilization alive."


2002/2003

1265 Military Trail, Toronto, Ontario, Canada, M1C 1A4 (416-287-UTSC)
GREETINGS FROM THE PRINCIPAL AND DEAN

It is with great pleasure that I welcome new and returning students to the 2002-2003 academic year. The challenges facing society and, as a result, universities and their students, are now knowledge is unprecedented. For those with the preparation to face the challenges, there is an exciting and rewarding future. Your university studies will increase your preparedness. The path is not easy but the rewards are great.

As a student at the University of Toronto at Scarborough, you are part of a community dedicated to advancing knowledge in a wide array of fields, dedicated to disseminating that knowledge and its applications to students, other researchers and society, and dedicated to the enhancement and harnessing of technology.

More specifically, you are part of a community that has pioneered the development and use of information technology. UTSC was the first Faculty of the University to develop a Web site enhancement of instruction, from the simple posting of assignments to interactive sites. We lecture theatres equipped as "smart classrooms" and three portable "smart podiums" that can facilities such as Internet connectivity, CD ROM presentation ability, computer output overhead screens (objects as diverse as written documents, computer components and ancient artifacts).

Professors at UTSC are active researchers and scholars and have won many prestigious awards for their contributions to the arts, humanities, sciences and business. We strive to ensure that the knowledge they impart to you is at the leading edge of their disciplines. UTSC has benefited from its divisional (instead of departmental) structure and from the fact that it is a medium-sized institution. Both of these features have facilitated the development of interdisciplinary programs such as Integrative Biology (an integration of Zoology, Microbiology and Biochemistry), Environment Science (Psychology and Biology) and Atmospheric Physics/Environmenal Sciences. In addition, Drama, Music, Fine Art History and Fine Art Studio have created their own programs in Visual and Performing Arts and offer co-op programs in Arts Management.

During 2002-2003, several new buildings will be under construction: a $22 million Academic Research Centre, a $12 million Academic Building, a $14 million Student Centre and a $15 million new phase of Student Residences.

Currently about 30% of full-time students are in co-op programs. In each of the next three years more co-op programs will be added and we aim, by 2004, to have 60% of full-time students in co-op programs.

These are just some of the ways in which the University of Toronto at Scarborough is able to contribute to your preparedness to face a challenging, exciting and rewarding new millennium.

I offer you my very best wishes for a rewarding year of study in our academically rich environment.

Professor Paul Thompson
Principal and Dean
University of Toronto
at Scarborough

University of Toronto at Scarborough: Past and Present

Founded in 1964 as a constituent college of the Faculty of Arts and Science, the University of Toronto at Scarborough is situated on a park-like campus of 300 acres at the eastern edge of the city. From a modest start offering evening courses in a local high school, it has matured into a thriving institution where over 200 faculty teach more than 700 courses to 5000 students.

The first full-time students enrolled in 1965 in temporary quarters on the St. George campus, moving to the current site when the first buildings opened in January 1966. Designed by Toronto architect John Andrews, they won immediate international acclaim for its striking architecture.

1973 saw the opening of the Bladen Building, housing classrooms, office space, and athletic facilities, and the Student Village, a complex of townhouses residences. In 1985 the original Village was expanded and in 1990 the West Village opened, creating a second residential area on the campus with some wheelchair accessible buildings. When the fourth phase of student residence construction, an apartment-style building designed to enhance all aspects of student development, is completed in 2003, 739 students will be accommodated in campus facilities.

The Vincent W. Bladen Library, opened in 1982, houses more than 200,000 books and periodicals, thousands of maps, and a media centre. A leader in the use of electronic resources, Bladen Library incorporates a Department of Teaching and Learning Services, a Writing Centre, and the Centre for Instructional Technology Development. A new Academic Resource Centre will bring together the technical and information services of UTSC, transforming the Library into a state-of-the-art information centre and adding a 500 seat lecture theatre and study space.

A Soil Erosion Research Laboratory opened in 1989, the NSERC/Arts Child Care Centre in 1990, and the Leighs Low Browne Studio Theatre in 1993. Plans for a Student Centre, to open in 2003, and for new classroom buildings for Arts and Management have been approved.

In 1992 the University of Toronto at Scarborough became a separate division of the University. It was the first college in the University to adopt a credit system. It offers the University's only formal co-operative programs, continuing the highly valued University of Toronto degree with paid work-term placements. The Early Teacher Education in the Division of Physical Sciences and Humanities guarantee Successful graduates admission to the Ontario Institute for Studies in Education/University of Toronto.

In 2000 UTSC was granted the right to offer the only programs in the University leading to the Bachelor of Business Administration degree (B.B.A.). Beginning in 2002, UTSC will offer unique programs in Journalism and New Media in collaboration with Centennial College. In 2003 UTSC will move to a trimester system, enhancing opportunities for year-round study.

UTSC Faculty, many internationally recognized for their research and scholarship, also teach courses and train graduate students on both the Scarborough and St. George campuses. The well appointed research laboratories, high levels of technical services, relatively small size and the diversity of the faculty foster an ideal environment for intellectual exchange and development.

Scarborough students have full and up-to-date resources available on campus; they also have access to the resources of the University as a whole. Regular events at UTSC include concerts, drama productions, and literary readings. The West Lecture series bring such distinguished speakers as Nobel Prize winner Lester Pearson, architect Raymond Moriyama, and theologian Hans Küng to campus. Intramural athletics and recreation, a wide variety of student clubs and cultural groups, and a campus newspaper and radio station provide some of many opportunities for full involvement in student life.
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## Important Notices

1. **Changes in Subject Pests (Programs) in Future Years**
   - The programs of study that our students have chosen may not be available for the year(s) to which the Calendar applies. This calendar specifies only the programs available for the current year. If the University or the Faculty decide to change programs, all reasonable possible advance notice will be given. The University reserves the right to withdraw programs or change conditions of study without notice.

2. **Regulations and Policies**
   - The University has established rules and policies that apply to all students. It is important that students are aware of the regulations and policies that apply to them. They are published in the Calendar and on the University website. The University reserves the right to change its rules and policies at any time.

3. **Enrolment Limitations**
   - The University makes every reasonable effort to plan and control enrolment to ensure that all of our students are able to complete the programs to which they are admitted. The University will strive to maintain a balance between enrolment and available instructional resources. Surplus personnel may be scheduled for reassignment to other academic programs. The University reserves the right to withdraw courses or sections for which enrolment or resources are insufficient. The University will not be liable for any loss, damage, or other expenses that such limitations or withdrawals might cause.

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

5. **Purposes of I.D. (Student Number)**
   - Each student at the University is assigned a unique identification number. The number is confidential. The University, through the Policy on Access to Student Academic Records, strictly controls access to personal I.D. numbers. The University reserves the right to withdraw the confidentiality of their I.D. number.

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

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

8. **Responsibility of Students**
   - It is the responsibility of students to see that their academic programs meet University of Toronto at Scarborough’s regulations in all respects.

9. **STTSC Website**
   - Refer to the STTSC website for the most up-to-date copy of this Calendar.

10. **ACADEMIC OFFENCES ARE A SERIOUS MATTER.** See page 262.

11. **University of Toronto at Scarborough**
    - The University of Toronto at Scarborough has a fire safety plan. Copies are available from Physical Plant Services B444.

12. **University of Toronto at Scarborough**
    - The University of Toronto at Scarborough has a No-Smoking Policy.

13. **University of Toronto at Scarborough**
    - The University of Toronto at Scarborough “Smokefree” 416-287-7026.
**Academic Calendar / Summer Session 2002**

<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.</td>
</tr>
<tr>
<td>March 29</td>
<td>Good Friday = University closed.</td>
</tr>
<tr>
<td>April 8</td>
<td>Summer Session registration begins through ROSI.</td>
</tr>
<tr>
<td>May 10</td>
<td>Deadline to register in May to June and May to August courses (Section 'P' and 'Y').</td>
</tr>
<tr>
<td>May 13</td>
<td>Classes begin in May to June and May to August courses (Section 'P' and 'Y').</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.</td>
</tr>
<tr>
<td>May 20</td>
<td>Victoria Day = University closed.</td>
</tr>
<tr>
<td>May 29</td>
<td>Last day to add May to June and May to August courses (Section 'P' and 'Y').</td>
</tr>
<tr>
<td>June 9</td>
<td>Last day to cancel May to June courses (Section 'P') from academic record and G.P.A. **</td>
</tr>
<tr>
<td>June 21</td>
<td>Last day of classes in May to June courses (Section 'P'). Last day for submission of term assignments in these courses.</td>
</tr>
<tr>
<td>June 28</td>
<td>Reading Week = 'H' and 'Y' courses. Final Exams in 'P' courses.</td>
</tr>
<tr>
<td>June 29</td>
<td>Deadline to register in July to August courses (Section 'S').</td>
</tr>
<tr>
<td>July 1</td>
<td>Canada Day Holiday = University closed.</td>
</tr>
<tr>
<td>July 2</td>
<td>Classes begin in July to August courses (Section 'S').</td>
</tr>
<tr>
<td>July 8</td>
<td>Last day to add July to August courses (Section 'S').</td>
</tr>
<tr>
<td>July 21</td>
<td>Last day to cancel July to August courses (Section 'S') from academic record and G.P.A. **</td>
</tr>
<tr>
<td>July 29</td>
<td>Last day to cancel July to August courses (Section 'S') from academic record and G.P.A. **</td>
</tr>
<tr>
<td>July 31</td>
<td>For dates on other campuses, see the appropriate Calendar.</td>
</tr>
<tr>
<td>August 5</td>
<td>Last day to confirm intention to graduate at the Fall Convocation.</td>
</tr>
<tr>
<td>August 9</td>
<td>Last day of classes in May to August and July to August courses (Section 'Y' and 'S').</td>
</tr>
<tr>
<td>August 12-16</td>
<td>Final examinations in 'S' and 'Y' courses.</td>
</tr>
<tr>
<td>August 12-16</td>
<td>Deferred examinations from April/May 2002.*</td>
</tr>
<tr>
<td>November 19</td>
<td>Fall Convocation.</td>
</tr>
</tbody>
</table>

**For dates on other campuses, see the appropriate Calendar.**

**Notes:**
- After this date a grade is recorded whether course work is completed or not and calculated into the G.P.A.
- For dates on other campuses, see the appropriate Calendar.

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**Academic Calendar / Winter 2002/2003**

**2002 - FALL SESSION**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 1</td>
<td>Last day for new students to apply for admission to the University for full-time studies beginning in September. Oversea students must apply by March 1.</td>
</tr>
<tr>
<td>June 1</td>
<td>Last day for new students to apply for admission to the University for part-time studies beginning in September.</td>
</tr>
<tr>
<td>July 3</td>
<td>Fall/Winter Session registration using ROSI.</td>
</tr>
<tr>
<td>September 2</td>
<td>Labour Day = University closed.</td>
</tr>
<tr>
<td>September 9</td>
<td>Classes begin in Fall Session courses (Section 'F') &amp; Fall/Winter Session courses (Section 'Y').</td>
</tr>
<tr>
<td>September 22</td>
<td>Last day to add Fall courses (Section 'P') &amp; Fall/Winter Session courses (Section 'Y').</td>
</tr>
<tr>
<td>October 14</td>
<td>Thanksgiving Day = University closed.</td>
</tr>
<tr>
<td>November 3</td>
<td>Last day to cancel Fall Session courses (Section 'P') from academic record and G.P.A. **</td>
</tr>
<tr>
<td>November 13</td>
<td>December Examination Schedule published.</td>
</tr>
<tr>
<td>December 2</td>
<td>Last day of classes in the Fall Session. Last day for submission of term assignments in Fall Session courses (Section 'F').</td>
</tr>
<tr>
<td>December 3-6</td>
<td>Study Break (UTSC); U of T Scarborough students who are registered in St. George courses will continue to have classes during this period.</td>
</tr>
<tr>
<td>December 9-19</td>
<td>Term test and final examination period. Deferred examinations from June and August, 2002.*</td>
</tr>
<tr>
<td>December 23-January 3</td>
<td>December break = University closed.</td>
</tr>
</tbody>
</table>

**2003 - WINTER SESSION**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 6</td>
<td>Classes resume in Fall/Winter Session courses (Section 'Y').</td>
</tr>
<tr>
<td>January 6</td>
<td>Classes begin in Winter Session courses (Section 'S').</td>
</tr>
<tr>
<td>January 19</td>
<td>Last day to add Winter Session courses (Section 'S').</td>
</tr>
<tr>
<td>February 15</td>
<td>Last day to confirm intention to graduate at the Spring Convocation.</td>
</tr>
<tr>
<td>February 16</td>
<td>Last day to cancel Fall/Winter Session courses (Section 'Y') from academic record and G.P.A. **</td>
</tr>
<tr>
<td>February 17-21</td>
<td>Reading Week = No classes held.</td>
</tr>
<tr>
<td>March 9</td>
<td>Last day to cancel Winter Session courses (Section 'S') from academic record and G.P.A. **</td>
</tr>
<tr>
<td>March 12</td>
<td>Annual Examination Schedule published.</td>
</tr>
<tr>
<td>April 4</td>
<td>Last day of classes; no tests or examinations (other than deferred examinations) may be held until the beginning of the examination period. Last day for submission of term assignments for Fall/Winter courses (Section 'Y') and Winter Session courses (Section 'S').</td>
</tr>
<tr>
<td>April 7-11</td>
<td>Study Break (UTSC). U of T Scarborough students who are registered in St. George courses will continue to have classes during this period.</td>
</tr>
<tr>
<td>April 18</td>
<td>Good Friday = University closed.</td>
</tr>
<tr>
<td>April 14-May 2</td>
<td>Final examination period.</td>
</tr>
<tr>
<td>April 30-May 6</td>
<td>Deferred examinations from December 2002.*</td>
</tr>
<tr>
<td>June 8</td>
<td>University Spring Convocations are likely to begin.</td>
</tr>
</tbody>
</table>

**For dates on other campuses, see the appropriate Calendar.**

**Notes:**
- After this date a grade is recorded whether course work is completed or not and calculated into the G.P.A.
Officers of the University of Toronto

President and Chief Executive Officer
R. Biringer, B.A., Ph.D.

Vice-President and Provost
A. Gerea, B.S., M.I.A., Ph.D.

Vice-President, Human Resources
A. R. Hilliard, B.S., M.A., Ph.D.

Vice-President, Business Affairs
F. P. Che, B.S., M.S., M.B.A.

Vice-President and Chief Advancement Officer
J. D. Lafer, B.A., M.Ed., Ed.D.

Vice-President, Research and International Relations
H. McRae-Blom, B.A., B.S.W., M.S.W., Ph.D.

Vice-President, Policy Development and Associate Provost
C. Taylor, B.A., M.A., Ph.D.

Vice-Provost, Relations with Health Care Institutions
D. Naylor, M.D., D.Phil., PRCP.

Vice-Provost
V. Goel, M.D., C.M., M.S., M.F.R.C.P. (C)

Vice-Provost, Planning & Budget
D. McCommond, B.S., Ph.D.

Vice-Provost, Students
J. Orchard, B.S., Ph.D., D.Sc.

Secretory of the Governing Council
K. J. Swett, B.S., M.B.A.

University Registrar
K. J. Swett, B.S., M.Ed.

Services Available:
The Library provides assistance to UTSc students in many aspects of their studies and students are encouraged to start familiarising themselves with this crucial academic resource from the very beginning.

Through its Collectors Management and Access Services, the Library provides a wide variety of materials in different media to support undergraduate programs on campus. The collection consists of over 200,000 books and hundreds of periodicals, as well as access to thousands of full-text electronic journals and indexes, Internet resources, maps, slides, music CD's, and videos. Many items for particular courses are made available through Short-Term Loan. As a student of 40 libraries at UTSc, students can also access materials on the St. George campus and beyond via Resource Sharing Services.

Library Systems maintains nearly 100 computer workstations to provide student needs. Express Internet computers allow access to UTLab and the Library's databases, as well as the Web in general. The Writing Centre Lab allows for word processing and printing; the Language Lab contains specialized language software; and the LINC Lab is used for instruction in graphics, multimedia, and web design using state-of-the-art computers.

A new expanded Library of the future is currently being constructed at UTSc. This will be called the Academic Resource Centre (ARC) and will significantly enhance the resources and services available to students. In anticipation of this expanded role, Teaching and Learning Services staff, within the current Library, already provide students with specific instruction in writing (through the Writing Centre), conducting research (Information and Research Instruction Services), and using and developing various multimedia and web programs (Centre for Instructional Technology Development). In order to enhance instruction they also assist faculty with all aspects of curriculum design and implementation, and support innovative projects that facilitate students in the attainment of their educational goals.

Student Services
Advising and Learning Skills
Promotes the learning and development of students through a variety of services such as peer counselling study skills drop-in centre, study skills resource library, workshops, seminars and special events, tip sheets, web sites and individual appointments with advisors. Room 3500, 416-287-7861 www.utoronto.ca/counselling/

The Career Centre
The Career Centre embraces a self-managed career development model. We help students explore their career options through workshops, seminars, special events, testing instruments, electronic and printed materials, job searching and networking opportunities. We also help students explore unemployment fields, research the marketplace, prepare for and gain employment. U of T students enjoy access to thousands of employer opportunities through 'Career Centre On-Line'. An annual fair brings together representatives from graduate and professional schools with UTSC. Room 3000, 416-287-7561.

http://www.utoronto.ca/counselling/

Financial Aid
Financial Aid presents seminars and guest speakers to inform you about financial aid programs, OSAP, bursaries, graduate school funding and to help you make sound financial decisions. An advisor is available to assist you on an individual basis. The office distributes OSAP applications and loan documents, bursary and emergency loan applications. Room 8020, 416-287-7001.

Registrar Services
Registrar Services is the place to visit for help with registration, to request student, card, request letters or forms which confirm your status at the university, order copies of your examinations and answer many of your general questions about academic regulations and degree requirements, and re-enrollment for those students who are rerturning after a 12-month absence. Room 3003, 416-287-7001.

Hours:
Monday, Tuesday, Thursday:
9:30 a.m.-4:30 p.m.
Wednesday: 10:00 a.m.-4:00 p.m.
5:00 p.m.-6:30 p.m.
Friday: 9:30 a.m.-4:30 p.m.
Health & Wellness Centre

Hours:
- Monday - Friday: 9:00 a.m. - 5:00 p.m.
- Saturday: 9:00 a.m. - 4:45 p.m.

Additional Information:
- Closed on holidays

Services:
- Primary Care
- Physical Therapy
- Child Care
- Dietary Counseling
- Substance Abuse Counseling
- Tobacco Cessation

Student Wellness:
- Mental Health
- Stress Management
- Personal Safety

Location:
- 100 Toronto St, Toronto, ON M5S 1A4

Access Information:
- www.scar.utoronto.ca/services

University Police Services

Location:
- 500 Main Entrance, University of Toronto

Emergency:
- 416-828-3737

General:
- 416-828-7199

Walk Safe:
- 416-828-7022

E-Mail: police@utoronto.ca

Student Crime Stoppers Website:
- www.utoronto.ca/police/student-crime-stoppers

The University of Toronto Police are fully sworn police officers who are on duty 24 hours a day, 365 days a year to serve the University community.

The University of Toronto Police are in partnership with the University community to provide a safe and secure environment in which to carry on daily activities.

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

UTSC Police should be informed of all matters involving threats to personal safety and security, violations of federal, provincial or municipal laws or University policies.

Examples of these would include:
- Attempts to injure others or self
- Medical emergencies
- Alcohol-related emergencies
- Threats
- Assaults
- Vandalism
- Damage to property
- Theft of property
- Possession of drugs or weapons
- Any other situation that looks suspicious or causes concern.

The UTSC Police can provide pay duty officers to address security concerns for all functions. They also co-ordinate community safety and crime prevention programs such as Village Watch, Walk Safely and Work Safely as well as Students of Concern. As part of the Second Watch Service is also provided by the Police office.

The UTSC Police are also available for discussions and presentations on matters relating to threats to personal safety or other criminal and non-criminal matters at UTSC.

Student Residences

The University of Toronto at Scarborough residence system offers you a comfortable home away from home.

Our mission is to provide residence students with a "Living and Learning" environment that supports the academic mission of the university and offers students a variety of opportunities to enhance their university experience both inside and outside the classroom. Our Residence Life Program is designed to assist students with the transition to university and to support their success throughout their university experience, active in fostering a learning community committed to a high standard of mutual respect and understanding towards its members in spite of any difference in opinion, culture, religion, disability or sexual orientation. Leadership opportunities are available on many levels. Workshops, the academic mentoring program, the residence student government and our student mentoring program (LINKS) are only a few examples of support and opportunities available to all residence students.

Clustered in two attractively landscaped villages, our fully furnished townhouses with well-equipped kitchens, are located minutes from the academic buildings and steps away from the centre of residence life, our furnished common area. There are 114 self-contained townhouses, accommodating 554 students, with four to six in each house. Single and shared room accommodations are available. Houses are assigned as either all female or all male for new students. There are four laundry rooms located in the village. Five houses are specially designed to meet the needs of students with disabilities.

The Don, who are senior students, serve as a community support network that strives to make the residence environment enjoyable, memorable and a "home away from home." The Residence is guaranteed to all full-time first-year students who are offered the transition on July 1, and who respond to all deadlines and meet all deposit requirements. First-year students and those who receive late offers are housed in the Housing Office for further information.

Availability is accepted for winter and summer. We recommend you to come and visit us during the summer to tour the village and meet the residents.

For more information, contact:
- Residences Office
- 255 Trendsetter Way, Scarborough, ON M1C 1A4
- Telephone: 416-828-7365
- Fax: 416-828-7667
- E-mail: residences-office@scar.utoronto.ca
- Web site: www.scar.utoronto.ca/residences
Students are encouraged to discuss their needs as early as possible with the Co-ordinator of AccessAbility Services. Students must present appropriate and up-to-date documentation of their disability when it is requested.

Responsibility of AccessAbility Services

Staff in AccessAbility Services are available to provide services directly to students who have disabilities and to support and advise faculty and staff of the University in providing appropriate accommodation. AccessAbility Services will encourage students to communicate with their department and discuss their needs with appropriate staff. AccessAbility Services will act as a resource centre for the University on disability issues, will assess documentation, recommend appropriate accommodations, and provide ongoing consultation and support.

Services Available at UTSC

- arrangements for alternate tests/exams
- note takers
- provision of assistive devices and adaptive equipment and assessment of these needs
- adaptive materials (large print/taped texts)
- alternative communication (i.e. sign language interpreter)
- accessible test and course locations
- personal and career counselling relating to the individual's disability
- access to a registered psychologist for psycho-educational assessments and refers to support services as required.

The Co-ordinators are available at:

- Voice: 416-287-7560, ext. 5702
- (Voice/TTY): 416-287-7553; email: ability@utsc.utoronto.ca

We also have a page on the World Wide Web: www.utsc.utoronto.ca/ability

International Student Centre

At the International Student Centre (ISC) all students can take part in social and cultural programs with an international focus, or just take a break from the pressures of study. "Interchange", ISC's week or study abroad resource centre, provides information and counselling on overseas programs. ISC also offers special services to international students pre-arrival information (note with the admission offer), registration service and orientation events, English language program, Newsletter and advice on non-academic concerns. Contact: ISC, 33 St. George Street, Toronto, Ontario, M5S 2E3, 416-978-2264.
Degrees

University of Toronto at Scarborough

Honours Degree

To qualify for a four-year degree, students must:
1. pass at least twenty courses.
2. complete either (a) a Specialist Program in Management, or (b) two Major Programs, or (c) three Minor Programs, or (d) two Minor Programs and a Major Program. Combinations of programs used to meet this requirement must include at least twelve different courses.
3. earn a cumulative grade point average of at least 1.60.

Bachelor of Business Administration Degree

1. pass at least twenty courses.
2. complete either (a) the Specialist Program in Management, or (b) the Specialist Program in Management & Language (French) or (c) the Specialist Co-operative Program in Economic Policy Management and Data Analysis.
3. earn a cumulative grade point average of at least 1.60.

B.A., B.Sc. and B.B.A. Degrees

The type of degree students receive is determined by the Program completed. (See the list of Programs on page 18 for the type of degree towards which the Program leads.) Students must monitor their own progress to degree completion. Where students use a combination of three Programs 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 Major Programs to satisfy the requirements of an Honours degree, in order to receive a B.B.A., both must be in the sciences. Where students use two Minor Programs to satisfy the requirements of a three-year degree, in order to receive a B.B.A., both must be in the sciences.

For students completing the requirements outlined in the 1988-89 Calendar, the type of degree is determined by the number of Science credits completed.

Graduation with High Distinction and with Distinction

University of Toronto at Scarborough students who have completed at least ten full courses in residence at the University of Toronto at Scarborough or at 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 who have completed fewer than ten University of Toronto at Scarborough or Faculty of Arts & Science courses who have a cumulative grade point average of 3.00 or better will be considered on an individual basis.

Transfer Students

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

Upgrading Three-Year Degrees

Students who have graduated with a three-year degree may still choose to complete the requirements of the Honours degree. A second degree will not be conferred but completion of the Honours degree requirements will be noted on the student's transcript. Students who upgrade a three-year degree to an Honours degree may exchange the diploma for an Honours diploma of the same kind, e.g. a three-year B.A. may only be replaced by an Honours B.A. diploma. Students who have received a three-year degree and are in the final year of the Honours degree should notify the Registrar's Office through ROGI or by means of a confirmation of graduation form by February 15 if they are completing the requirements in the Fall/Winter Sessions and by July 15 if they are completing the requirements in the Summer Session.

"Second Degree" Requirements

Students beginning a second degree are normally exempted from first year of the degree requirements by being granted five (5) credits, regardless of the number of previous degrees. Students who hold a B.A., B.B.A. or B.Sc. from the University of Toronto will be considered for admission to a second Program only of a different type (i.e. students with a B.A. degree may only complete a B.B.A. or B.Sc. degree). Application for admission to a second degree Program is made through the Assistant Registrar--Admissions.

Non-Degree Students

"Non-degree students" are students registered in degree courses at the University of Toronto at Scarborough with:
(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 specific disciplines are specifically exempted, all regulations apply equally to non-degree students and degree students. Where students have been admitted on an interim basis as non-degree students, the conditions of their admission supersede the normal regulations governing academic status.

Programs of Study (Subject POSIs)

Students must select and register in a Program or Programs following the session in which they receive their fourth credit. Note that some Programs have limited enrolments. See the Program descriptions for admission requirements. A list of Programs may be found on page 18. Only programs offered by the University of Toronto at Scarborough may be used to meet program requirements.

Specialist Programs

1 Specialist Programs are designed to provide depth and intensity of study within a limited area defined as a discipline, a group of disciplines, or a particular theme or area of study. A Specialist Program may be taken only as part of an Honours or a Bachelor of Business Administration degree and will consist of at least nine courses.

Major Programs

2 Major Programs are designed to provide concentration in an area of study defined as a group of disciplines or a particular theme or area of study. A Major Program may be taken as part of an Honours, a Bachelor of Business Administration degree and will consist of at least twelve courses.

Minor Programs

3 Minor Programs are designed to provide study in a specific area for students desiring wide-ranging but coherent Programs. Study of Programs in different areas of the curriculum. A Minor Program may be taken as part of either a three-year or an Honours degree and will consist of at least nine full courses, including at least one full-course equivalent at the C- or D-level.

Approved Individual Programs

4 Students may propose individual Programs of study, other than those those outlined in this Calendar. Such proposals will be considered favourably only from students with
cumulative grade point averages of 3.5 or greater. To be approved, individual Programs should specify four courses for a Minor Program, six to eight courses for a Major Program and ten to fourteen courses for a Specialist Program. The courses should all be offered on the Scarborough Campus and should form a logical Program. The student should offer a rationale for the proposal. Proposals must be submitted at least two months prior to the semester in which the student expects to graduate.

Co-operative Programs

Co-operative programs are work-study programs which are designed to integrate related, practical experience with regular University studies. All Co-operative Programs are either Specialist or Major Programs and may be taken only as part of a four-year degree. Major Co-operative Program must be combined with another Major Program. Some Co-operative Programs may take up to five years to complete because of the time required for the work placements.

Course selection and registration for Programs of study

1. Students are responsible for ensuring that their course selection will enable them to complete the requirements of their Program(s) by the time they complete their other degree requirements. In certain Programs, approval of the supervisor of some or all courses is necessary. In all Programs, the supervisor is available for consultation concerning Program requirements and course selection.

2. Students in their first year of full-time study, or first four courses of part-time study, are not required to select a Program, unless they have completed four full-course university credits. Students in their second year, or who may complete four full-course university credits in the subsequent year, will normally be required to select a Program before the end of the year. Students who have completed four full-course university credits in the subsequent year, will normally be required to select a Program before the end of the year.

3. Students are required to complete the requirements of their Program(s) by the time they complete their other degree requirements. In certain Programs, approval of the supervisor of some or all courses is necessary. In all Programs, the supervisor is available for consultation concerning Program requirements and course selection.

Program Transfers

Students who wish to transfer from one Program to another after classes have started should discuss the proposed transfer with the Program Director of the new Program and notify the Registrar's Office of the change through ROSI or by submitting a Program change form to the Registrar's Office.

Certification of completion of Programs

Completion of Programs is certified when the student has completed all the Program requirements. students in their final year who have completed all the Program requirements are required to register in the Program. The Program Director will then complete the Program requirements and certify that the student has completed all the Program requirements.

When Program requirements are changed, students may elect to satisfy the requirements in one year, but the Program Director will determine if the student has completed all the Program requirements. The Program Director will then complete the Program requirements and certify that the student has completed all the Program requirements.

Regulations concerning Programs of study

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

2. Students may register in no more than one Specialist Program at any one time.

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

4. Students must complete the requirements of a Minor Program and subsequently choose to complete a Major or Specialist Program. The student may use the courses already completed in the Minor Program to fulfill the requirements of the Major or Specialist Program. Upon successful completion of the additional requirements, any previous certification of the Minor Program will be superseded on the student's transcript by certification of the Major or Specialist Program.

5. When a student completes the requirements of a Major Program and subsequently chooses to complete a Specialist Program, the student may use the courses already completed to fulfill the requirements of the Specialist Program. Upon successful completion of the additional requirements, any previous certification of the Major Program will be superseded on the student's transcript by certification of the Specialist Program.

6. Supervisors have the authority to deal with special circumstances concerning Program requirements. This includes making changes to a Program in order to meet the needs of a student. The student should check with the Program Director to ensure that the Program requirements are met.

7. Students should note that certain Programs will require them to take some of their courses on the St. George Campus. However, only University of Toronto at Scarborough students are required to complete all of their Program requirements on the St. George Campus. Students transferring from other divisions of the University of Toronto are exempt from this requirement.

Registration in Programs which have been withdrawn

Normally students will not be allowed to register in Programs that have been withdrawn. However, when required courses for the Programs are still offered, or courses are offered as an alternative, students who have completed at least four full-course equivalents at the end of the session in which the Program is withdrawn may apply for admission to the Program. This admission will be contingent upon the approval of the Chair of the relevant Division (or delegate), and subject to the requirements of the Program. Students transferring from other divisions of the University of Toronto are exempt from this requirement.

Stud...
<table>
<thead>
<tr>
<th>Type of Degree</th>
<th>MAJOR PROGRAMS **</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology - B.A./B.Sc.</td>
<td>Supervisor: M. Latta</td>
</tr>
<tr>
<td>Art History - B.A.</td>
<td>E-Mail Address: <a href="mailto:latta@uts.ac.utoronto.ca">latta@uts.ac.utoronto.ca</a></td>
</tr>
<tr>
<td>Astrophysics &amp; Physics - B.Sc.</td>
<td>L. Carney</td>
</tr>
<tr>
<td>Biochemistry - B.Sc.</td>
<td><a href="mailto:Carney@uts.ac.utoronto.ca">Carney@uts.ac.utoronto.ca</a></td>
</tr>
<tr>
<td>Chemistry - B.Sc.</td>
<td>E-Mail Address: <a href="mailto:carney@uts.ac.utoronto.ca">carney@uts.ac.utoronto.ca</a></td>
</tr>
<tr>
<td>City Studies - B.A.</td>
<td>C.G. Dyce</td>
</tr>
<tr>
<td>Cognitive Science - B.Sc.</td>
<td>J. Porter</td>
</tr>
<tr>
<td>Computer Science - B.Sc.</td>
<td>A. Verret</td>
</tr>
<tr>
<td>Drama - B.A.</td>
<td>E-Mail Address: <a href="mailto:verret@uts.ac.utoronto.ca">verret@uts.ac.utoronto.ca</a></td>
</tr>
<tr>
<td>Economics for Management Studies - B.A.</td>
<td>TBA</td>
</tr>
<tr>
<td>English - B.A.</td>
<td>W.E. Seager</td>
</tr>
<tr>
<td>Environmental Science - B.A.</td>
<td>R. Pasco</td>
</tr>
<tr>
<td>General Environmental Science Stream</td>
<td>P. Spelakos</td>
</tr>
<tr>
<td>Water Science Stream</td>
<td>E-Mail Address: <a href="mailto:pspelakos@uts.ac.utoronto.ca">pspelakos@uts.ac.utoronto.ca</a></td>
</tr>
<tr>
<td>Environmental Biology Stream</td>
<td>G. Vaillant</td>
</tr>
<tr>
<td>French - B.A.</td>
<td>TBA</td>
</tr>
<tr>
<td>Health Studies - B.A./B.Sc.</td>
<td>H. S. Rosenbush</td>
</tr>
<tr>
<td>History - B.A.</td>
<td>H. S. Rosenbush</td>
</tr>
<tr>
<td>Human Geography - B.A.</td>
<td>M. Evans</td>
</tr>
<tr>
<td>Integrative Biology - B.A.</td>
<td>C. Clark</td>
</tr>
<tr>
<td>International Studies - B.A.</td>
<td>G. Ivy</td>
</tr>
<tr>
<td>Int'l Development Studies - B.A./B.Sc.</td>
<td>E-Mail Address: <a href="mailto:rlyy@uts.ac.utoronto.ca">rlyy@uts.ac.utoronto.ca</a></td>
</tr>
<tr>
<td>Linguistics - B.A.</td>
<td>L. Chan</td>
</tr>
<tr>
<td>Mathematical Sciences - B.Sc.</td>
<td>W. E. Seager</td>
</tr>
<tr>
<td>Mathematics</td>
<td>TBA</td>
</tr>
<tr>
<td>Music and Culture - B.A.</td>
<td>E-Mail Address: <a href="mailto:seager@uts.ac.utoronto.ca">seager@uts.ac.utoronto.ca</a></td>
</tr>
<tr>
<td>Neuroscience - B.Sc.</td>
<td>TBA</td>
</tr>
<tr>
<td>New Media - B.A.</td>
<td>TBA</td>
</tr>
<tr>
<td>Philosophy - B.A.</td>
<td>TBA</td>
</tr>
<tr>
<td>Physical &amp; Human Geography - B.Sc.</td>
<td>TBA</td>
</tr>
<tr>
<td>Physical Sciences - B.A.</td>
<td>TBA</td>
</tr>
<tr>
<td>Political Science - B.A.</td>
<td>TBA</td>
</tr>
<tr>
<td>Psychology - B.Sc.</td>
<td>TBA</td>
</tr>
<tr>
<td>Public Policy - B.A.</td>
<td>TBA</td>
</tr>
<tr>
<td>Science and Environment - B.A.</td>
<td>TBA</td>
</tr>
<tr>
<td>Sociology - B.A.</td>
<td>TBA</td>
</tr>
<tr>
<td>Studio - B.A.</td>
<td>TBA</td>
</tr>
<tr>
<td>Women's Studies - B.A.</td>
<td>TBA</td>
</tr>
</tbody>
</table>

** Programs of Study and Course Descriptions

Supervisor: A. Stanbridge, W. Dowler
<table>
<thead>
<tr>
<th>Programs of Study and Course Descriptions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Music History - B. A.</strong></td>
<td>C. Clark</td>
</tr>
<tr>
<td><strong>Philosophy - B. A.</strong></td>
<td>W. E. Seager</td>
</tr>
<tr>
<td><strong>Political Science - B. A.</strong></td>
<td>J. Teichman</td>
</tr>
<tr>
<td><strong>Psychology - B. Sc.</strong></td>
<td>D. Bors</td>
</tr>
<tr>
<td><strong>Sociology - B. A.</strong></td>
<td>S. Ungar</td>
</tr>
<tr>
<td><strong>Studio - B. A.</strong></td>
<td>D. Helmam</td>
</tr>
<tr>
<td><strong>Women's Studies - B. A.</strong></td>
<td>L. Carney</td>
</tr>
</tbody>
</table>

**Where students use a combination of three Programs 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 Programs to satisfy the requirements of a three-year degree, in order to receive a B.Sc., both must be in the sciences.**

**CERTIFICATE PROGRAM**

<table>
<thead>
<tr>
<th>Type of Degree</th>
<th>Supervisor</th>
<th>E-mail Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business</td>
<td>TBA</td>
<td>TBA</td>
</tr>
</tbody>
</table>

**NOTE:** Tuition amounts vary with different University programs. Please consult the Student Fees and Accounts website at www. fees.utoronto.ca for further information.

* Pending final approval of the Governing Council

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**ROSI**

ROSI's Page (www.rosi.utoronto.ca)

University of Toronto at Scarborough students may use ROSI’s Page to:

- add and drop courses
- add and change meeting sections
- check the status of their course requests
- list courses on their record
- check to see if there is still room in a course
- add and drop Specialist, Major and Minor Programs
- access grades, G.P.A.’s and academic status
- display their academic record
- request a transcript
- confirm intention to graduate
- change their PIN
- change address and telephone numbers
- change next of kin and emergency contact information
- view other personal information
- access their free account
- list their ROSI’s Page transactions
- avoid lines
I. Biological Anthropology Stream
4 F.C.E. including:
ANT15Y* Biological Anthropology
ANTC35H* Quantitative Methods
(Another equivalent statistics course may be substituted)
ANTB21Y* Praxis Studies
And 1.5 F.C.E. from the following list:
ANTC12H Research on the Social Behaviour of Non-Human Primates
ANTC40Y Anthropological Demography
ANTC62H Anthropology of Food: Human Needs
ANTC64H Anthropology of Food: Consulting Practitioners

II. Medical Anthropology Stream
4 F.C.E. including:
ANT15Y* Biological Anthropology
ANTC35H* Quantitative Methods
(Another equivalent statistics course may be substituted)
0.5 F.C.E. from the area studies courses (see under IV Socio-Cultural Anthropology stream below).
And 2 F.C.E. from the following list:
ANTC40Y Anthropological Demography
ANTC50H Death and Burial
ANTC60H Fieldwork in Social and Cultural Anthropology
ANTC61H Medical Anthropology 1
ANTC62H Medical Anthropology 2
ANTC63H The Anthropology of Food: Consuming Passions
ANTD00H Anthropology of the Body
Courses which are recommended but not required include:
BGYA0Y* Introductory Biological Anthropology
ERSC04H Biodiversity and Biogeography
LSCA05H Geographic Information Systems (GIS) and Empirical Reasoning

III. Archaeology
4 F.C.E. including:
ANTB04Y* Introduction to Archaeological Materials
ANTC26Y* The Theory and Practice of Archaeology: An Introduction

Courses which are recommended but not required include:
ANTC35H Quantitative Methods
IDSC07H Project Management I
IDSC09H Ethics of Development
SPECIALIST PROGRAM IN MEDICAL ANTHROPOLOGY

The Specialist Program in Medical Anthropology integrates the fields of sociocultural anthropology, physical anthropology, and archaeology by taking health and disease as a focus for anthropological studies. This unique undergraduate program is designed to provide knowledge and skills in an area of growing importance for a wide range of health-related studies and work, and it is also intended to provide students with the necessary preparation to pursue graduate studies in medicine and related disciplines in the area of Medical Anthropology. The program requires the completion of at least seven full-course equivalents in disciplines other than Anthropology within the three-year degree program.

MINOR PROGRAM IN ANTHROPOLOGY

The Minor Program in Anthropology provides a course structure for students majoring or specializing in other disciplines who wish some direct exposure to anthropological thought. The program requires completion of four full-course equivalents including:

1. ANTA01Y Introduction to Anthropology
2. At least one full-course from among the following:
   a) ANTB12Y Biological Anthropology
   or ANTB22Y Primate Behaviour
   b) ANTB20Y Social and Cultural Anthropology
   c) ANTB11Y Introduction to World Prehistory
   or ANTB38Y First Nations of North America in Archaeological Perspective
3. Three additional full-course equivalents in Anthropology, at least one of which must be at the C- or D-level.

This leads to a B.A. Students are required to consult with the Supervisor regarding course selections, identification of potential interdisciplinary courses (e.g. sociocultural, physical, archaeological), and course requirements.

ANTAO1Y Introduction to Anthropology

An introduction to the various fields of anthropology.

The first term deals with Physical Anthropology, an introduction to the study of biological variation concentrating on the biological basis and the evidence for the origins and growth of culture. The second term concerns 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.

Two hours of lecture per week and a one hour tutorial per week.

Exclusion: ANTA00

M. Lata M. Landhek

ANTC08H Death and Burial
ANTC03H The Anthropology of Food: Consuming Passions
ANTD22H Ethnomedicine
IDB025H International Development Studies: Development and Environment
IDB04H International Health Policy Analysis
IDSC05H The Ethics of Development
LSCA05M Human Biology
PHLB55H The Art of Thinking

4. Two full-course equivalents at the B-Level or higher from disciplines other than Anthropology: IDB052H, IDB04H, IDC025H, LSCA05M, and PHLB55H may not be counted to fulfill this requirement (if they are used to fulfill the third requirement above.)
ANTH01Y3 Directed Reading in Anthropology
An examination of the basic approaches to anthropology
and the development of anthropology.
One hour of tutorial per week.
Prerequisite: ANTH01Y3 permission of the instructor.
T.R.A.A.

ANTH04H3 and ANTH04H4 Directed Reading in Anthropology
An examination of specific topics in Anthropology, based on extensive
research by the student or the instructor.
One hour of tutorial per week.
Prerequisite: ANTH04H3 or permission of the instructor.
T.R.A.D.

ANTH02Y3 Biological Anthropology
A survey of the human place in nature: origin and evolution.
The course is designed to provide
understanding of human evolution.
Two hours of lecture per week.
Prerequisite: ANTH02Y3 or permission of the instructor.
T.R.A.

ANTH02Y4 Primate Behaviour
A survey of the study of the
behavioural biology of primates.
Two hours of lecture per week.
Prerequisite: ANTH02Y4 or permission of the instructor.
T.R.A.

ANTH03Y3 First Nations of North America
An introduction to the cultures of the First Nations of North America.
Two hours of lecture per week.
Prerequisite: ANTH03Y3 or permission of the instructor.
T.R.A.

ANTH04Y3 Human Origins
An introduction to the study of human evolution.
Two hours of lecture per week.
Prerequisite: ANTH04Y3 or permission of the instructor.
T.R.A.

ANTH04H3 and ANTH04H4 Directed Reading in Anthropology
An examination of specific topics in Anthropology, based on extensive
research by the student or the instructor.
One hour of tutorial per week.
Prerequisite: ANTH04H3 or permission of the instructor.
T.R.A.D.

ANTH05H3 Anthropology and Anthropology
An examination of the relationship between anthropology and
psychology.
Two hours of lecture per week.
Prerequisite: ANTH05H3 or permission of the instructor.
T.R.A.

ANTH06H3 African Culture and Society
A study of contemporary and traditional African cultures, their
patterns, processes, and cultural diversity.
Two hours of lecture per week.
Prerequisite: ANTH06H3 or permission of the instructor.
T.R.A.

ANTH07Y3 Biological Anthropology
A survey of the human place in nature: origin and evolution.
The course is designed to provide
understanding of human evolution.
Two hours of lecture per week.
Prerequisite: ANTH07Y3 or permission of the instructor.
T.R.A.

ANTH08Y3 Primate Behaviour
A survey of the study of the
behavioural biology of primates.
Two hours of lecture per week.
Prerequisite: ANTH08Y3 or permission of the instructor.
T.R.A.

ANTH09Y3 First Nations of North America
An introduction to the cultures of the First Nations of North America.
Two hours of lecture per week.
Prerequisite: ANTH09Y3 or permission of the instructor.
T.R.A.

ANTH10Y3 Human Origins
An introduction to the study of human evolution.
Two hours of lecture per week.
Prerequisite: ANTH10Y3 or permission of the instructor.
T.R.A.

ANTH11Y3 African Culture and Society
A study of contemporary and traditional African cultures, their
patterns, processes, and cultural diversity.
Two hours of lecture per week.
Prerequisite: ANTH11Y3 or permission of the instructor.
T.R.A.

ANTH12Y3 Biological Anthropology
A survey of the human place in nature: origin and evolution.
The course is designed to provide
understanding of human evolution.
Two hours of lecture per week.
Prerequisite: ANTH12Y3 or permission of the instructor.
T.R.A.

ANTH13Y3 Primate Behaviour
A survey of the study of the
behavioural biology of primates.
Two hours of lecture per week.
Prerequisite: ANTH13Y3 or permission of the instructor.
T.R.A.

ANTH14Y3 First Nations of North America
An introduction to the cultures of the First Nations of North America.
Two hours of lecture per week.
Prerequisite: ANTH14Y3 or permission of the instructor.
T.R.A.

ANTH15Y3 Human Origins
An introduction to the study of human evolution.
Two hours of lecture per week.
Prerequisite: ANTH15Y3 or permission of the instructor.
T.R.A.
ANTB1030 Medical Anthropology: Illness and Healing in Cultural Perspective

This course examines illness, health, and healing from a comparative cross-cultural perspective. It is composed of three overlapping topical areas: (1) the description and analysis of nonwestern health ideas and practices; (2) the culture of North American illness and medicine, viewing biomedicine as an ethnomedical system comparable to those described in (1); (3) the development of culturally informed and socially responsible approaches to health promotion and intervention of the nonwestern societies. The course considers such topics as: the social and symbolic aspect of the body, the life-cycle in cross-cultural perspective, the meaning and popular explanation of illness, the logic of traditional healing systems and traditions practiced by shamans, the interaction of illness models and practices with gender, class, power, and social conflict, and illness in comparative perspective, innovations in health care systems. Exclusions: (ANTB151), (ANTC103). Prerequisite: ANTC101 or permission of the instructor.

ANTC4030 The Anthropology of Food: Consuming Passions

The role of food as a social and historical force is analyzed from the perspective of the anthropological notion of the "social" and "cultural." The course explores the concept of "food" as a means of social control and the manipulation of food and diet as a means of social status and identity. Exclusions: ANTC102, ANTC202.

ANTB2040 Introduction to Archaeological Materials

This course is an introduction to the materials and techniques used in the study of prehistoric human artifacts. It covers the identification and analysis of various materials, including ceramics, stone, bone, and shell. Exclusions: ANTC203. Prerequisite: ANTC201. (ANTC260 is recommended as a co-requisite.)

ANTB211Y Comparative Literature

Prerequisite: ANTC101. Introduction to World Prehistory

Prerequisite: ANTC111. Exclusions: ANTC111, ANTC211. Prerequisite: ANTC101 or permission of the instructor.

ANTB302H Psychological Anthropology

Exclusion: (ANTB120). Prerequisite: Any B to C+ in the course. Prerequisite: ANTC302. (ANTC360 is recommended as a co-requisite.)

ANTC373H Prehistory of Mexico and Central America

Exclusion: (ANTC377). Prerequisite: ANTC101. (ANTC203 and ANTC211 are recommended.)

ANTB360H Health and the Urban Environment

Prerequisite: Any A-level course

ANTC380Y Anthropological Study of Religion

Exclusion: ANTC360H. Prerequisite: ANTC201 or permission of the instructor. 3.500 Prerequisite: ANTC351 or ANTC361 or ANTC362 or permission of the instructor.

COURSES NOT OFFERED 2002/2003

ANTC490Y Introduction to World Prehistory

Exclusion: ANTC111. Prerequisite: ANTC111. Exclusions: ANTC111, ANTC211. Prerequisite: ANTC101 or permission of the instructor.

ANTC202H Introduction to Anthropology

Prerequisite: ANTC201. (ANTC260 is recommended as a co-requisite.)

ANTC203H Introducing to Archaeological Materials

Exclusion: ANTC202. Prerequisite: ANTC201. (ANTC260 is recommended as a co-requisite.)

ANTC211Y Introduction to World Prehistory

Exclusion: ANTC111. Prerequisite: ANTC101 or permission of the instructor.

COURSES NOT OFFERED 2002/2003

ANTC302H Psychological Anthropology

Exclusion: (ANTB120). Prerequisite: Any B to C+ in the course. Prerequisite: ANTC302. (ANTC360 is recommended as a co-requisite.)

ANTC360H Health and the Urban Environment

Prerequisite: Any A-level course

ANTC380Y Anthropological Study of Religion

Exclusion: ANTC360H. Prerequisite: ANTC201 or permission of the instructor. 3.500 Prerequisite: ANTC351 or ANTC361 or ANTC362 or permission of the instructor.
Astronomy
(B.Sc.)

Faculty List
P.P. Kingsberg, B.Sc., M.Sc., (Queen's), Ph.D. (Manchester), B.Sc. (Manchester), Professor Emeritus
C.C. Dyer, B.Sc., M.Sc., Ph.D. (Toronto) Professor
Discipline Representative: C.C. Dyer

Astronomy is the same time one of the oldest and one of the most dynamic areas of science. It is basically the attempt to understand the environment in which humanity developed, from the solar system in which we find our direct and recent origins, to the distant universe, which is so vast and so big, which in which we must search for the very origins of structure ranging from the solar system to the largest structures, such as large clusters of galaxies and cosmic voids. The past quarter century has seen startling discoveries, such as the cosmic microwave background radiation, that have given us both new understanding of the universe and made us more aware of the problems still facing us in attaining a further understanding. In addition there has recently been a significant trend towards the integration of many of the ideas of modern high energy physics into astronomy, with particularly interesting developments concerning ideas about the very first seconds in the evolution of our universe.

The full range of modern astronomical topics is covered in the introductory course AST100Y. For students wishing to further their study in astronomy, there are a number of B-science-related courses, which are integral components of a number of the Physical Sciences Special. Programs. In addition, the course AST200S is intended for students who have taken no previous astronomy, and covers the basics of modern astronomy. It is intended to provide a historical perspective on modern astronomy, and by example, introduce a number of modern scientific areas.

Please refer to the Physical Sciences Special Program Handbook on page 163 for a list of the Programs offered. Students interested in programs that involve Astronomy are referred to Physical Sciences for Applications on page 168 and Physical and Mathematical Sciences on page 165.

MAJOR PROGRAM IN
ASTROPHYSICS AND PHYSICS
Supervisors: C.C. Dyer, M.L.O. Lee
In this Program for the B.Sc. degree in Physics of this Calendar for details of the Program.

The Teaching and the Astronomy and Physics concentrations in the Specialist Program in Physics and its Applications, and the Major Program in Astrophysics and Physics are eligible for inclusion in the Co-operative Program in Physical Sciences and the Early Teacher Program in Physical Sciences. Please refer to the Physical Sciences (page 162) and the Co-operative Programs (page 65) sections of this Calendar for further information.

AST102Y Introduction to Astronomy
A description of the solar system, sun, stars, galaxies and other phenomena of the Cosmos in which we live.

In this course, the mechanisms which make our sun and other stars shine are explained, and the nature and evolution of our solar system, star systems, galaxies and the Universe as a whole are discussed in a manner suitable for both the science and non-science student. Methods and techniques for exploring the Universe are described, including the recent use of radio telescopes and telescopes on spacecraft. Two lectures and one tutorial per week.

AST200S Great Moments in Astronomy
An examination of the people, the background and the events associated with some major advances in astronomy.

Emphasis is given to the role of a few key individuals and to how their ideas have revolutionized our understanding of nature and the Universe. Implications of the revised outlook are also discussed.

The course will focus on the first measurement of stellar distances; the prediction of the existence of Neptune; the discovery of the nature of stars; and the proof of the existence of "Island universes"; the birth of the theory of stellar structure; the detection of the cosmic redshift; 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 Physical Science who, in their second or higher years, wish to acquire an understanding of the origins and significance of our present world view. A term paper dealing in detail with an aspect of one of the topics is required. Two hours of lecture per week and a one hour tutorial per week.

Exclusion: AST220
Prerequisite: Four half-course equivalents

AST220H Solar System and Stellar Astrophysics
The application of physical principles to study the structure and evolution of astrophysical bodies, particularly planets and stars and their location and motion in the universe.

The structure of astrophysical bodies such as planets and stars using the principles of physics will be considered. The motion of these bodies can usually be described using Kepler's laws of planetary motion, which will be considered as a consequence of Newton's law of gravity and the inverse square force law. The use of the Biot-Laplace equations to describe such mechanical systems will be considered.

Two hours of lecture per week and a one hour tutorial per week.

Exclusion: AST220H & AST220H & AST220I & AST221
Prerequisite: AST420Y & MAT242Y
Corequisite: MAT241H

ASTC01H Research Topics in Astronomy
An application of individual effort to reading and research on a topic of current interest.

The student will research on some topic of current interest in astrophysics and write a report ("manuscript") on his or her work. The student is expected to gain an appreciation of the current state of knowledge about a particular topic of astrophysical interest and to become familiar with the basic methods of research. The topic will be selected by one of the instructors in consultation with the student. Formal lectures are replaced by regular consultation between
Six Programs are offered in Biology. These include the Minor, Major, and Specialist Programs in Integrative Biology, Biological Science, and Cellular and Molecular Biology, and the Specialist (Co-operative) Program in Cell and Molecular Biology. The Minor Programs are available to students who have an interest in Biology, but who wish to focus their studies in Physical Sciences, Social Sciences, Management, or Humanities. The Major Program is intended for students who are interested in Biology and who wish to combine these studies with other areas of interest. The Specialist Programs permit students to focus their studies on areas of contemporary biology which are of particular interest to them. The Integrative Biology Specialist degree offers the most flexibility for students who wish to concentrate on more than one area of biology. Integrative Biologists approach questions about the natural world from many different perspectives, so this program includes courses in each of the core areas of biology. The Human Biology Specialist is a rigorous biology program designed for students who seek an educational experience with a greater emphasis on humans and issues in human health. Continuing students please note: the Integrative Biology Minor, Major and Specialist Programs replace the Biological Science Minor, Major and Specialist. Integrative Biology program requirements are identical to those of the Biological Sciences programs. The Cell and Molecular Biology Program and the Biological Science Minor are available to students who have a particular interest in the area of biology.

All students registered in Biology Programs are required to take one course in second-year core lecture courses in Cell and Molecular Biology. For a list of potential Southern and Animal Physiology, and Biology and Evolutionary Biology, and are also required to take one of the core laboratory courses in these areas. The Human Biology Program requires one additional second-year core lecture course in Biology. Students are advised to consult the specific Program Coordinator for their degree, to meet with the appropriate Program Coordinator for the Design, and to obtain a copy of the Biology Students’ Handbook for the most recent requirements. In addition to their fundamental significance, these areas are critical to understanding and solving many problems currently confronting humanity.

Substitutions must be pre-approved by the Program Coordinator. Students who are contemplating enrollment in graduate or professional schools should consult these Programs for specific entrance requirements which might be satisfied while fulfilling degree requirements.

Courses in Neuroscience and Environmental Sciences, NROC3H1, Neurobiology (Honours Neuroscience), NROC3H2, Developmental Neurobiology, and NESC3H1, Biostatistics, were previously Biology courses and may still be used as Biology courses to satisfy requirements in the Major and Specialist Programs in Integrative Biology. Note: Not all C-level lecture courses—BORG301, BORG303, and BORG305—and one C-level course—BORG306—must be completed before entering any C-level biology course.

MINOR PROGRAM IN INTEGRATIVE BIOLOGY Supervisor: G. Valsterberghe (Room S538, 416-287-7431) This Program may include BIOAG 101 plus three full-course equivalents in Biology. At least 1 C-level course must be at the C- or D-level.

MAJOR PROGRAM IN INTEGRATIVE BIOLOGY Supervisor: G. Valsterberghe (Room S538, 416-287-7431) This Program consists of 8 required courses.

1. Four C-levels consisting of the core curriculum components—BORG301, BORG303, BORG305, and BORG306.
2. One-half C-level from among the three options—BORG302, BORG304, or BORG305.
4. Two additional C-levels to Biology.
To be eligible for their second work term, students must have completed at least 12.5 F.C.E. (which must include the courses BOGY1CH2 or BOGY1CH3), BOGY1CH5, and BOGY1CH7, and have received a satisfactory evaluation for their performance and for their report on their first work term.

Academic Requirements
The program requires the completion of 14 F.C.E.s as specified for the Specialist Program in Cell and Molecular Biology (see above).

SPECIALIST PROGRAM IN CELL AND MOLECULAR BIOLOGY
Supervisor: C. Pickett (Room S512, 416-387-7655) pickett@uoftoronto.ca

This Program consists of 14 required F.C.E. Students are encouraged to take all 8-level Program requirements in numbers 1 and 2 below in the second year; these requirements provide the most flexibility in taking C- and D-level courses. The specific Program requirements are:

1. Four F.C.E.s consisting of the core curriculum components: BOGY1CH1, BOGY1CH2, BOGY1CH5, and BOGY1CH7.
2. One half F.C.E. from among the following courses: BOGY1CH9, BOGY1CH10, BOGY1CH11, BOGY1CH12, BOGY1CH13, and BOGY1CH14.
3. One F.C.E. from the courses listed by the Division of Humanities, Social Sciences, or Management.

SPECIALIST PROGRAM IN INTEGRATIVE BIOLOGY
Supervisor: C. W. G. Wakefield (Room S505, 416-387-7655) wakefield@uoftoronto.ca

This Program consists of 13.5 required F.C.E. Students are encouraged to take core courses during the first and second years, as appropriate over laboratory during the second year, as this provides the most flexibility for taking C- and D-level courses. The specific Program requirements are:

1. Four F.C.E.s consisting of the core curriculum components: BOGY1CH1, BOGY1CH2, BOGY1CH5, BOGY1CH7, BOGY1CH9, BOGY1CH10, and BOGY1CH12.
2. One half F.C.E. from among the following courses: BOGY1CH2, BOGY1CH3, BOGY1CH5, BOGY1CH7, BOGY1CH9, BOGY1CH10, and BOGY1CH12.
3. Four F.C.E.s from among the following courses: BOGY1CH1, BOGY1CH2, BOGY1CH3, BOGY1CH5, BOGY1CH7, BOGY1CH9, BOGY1CH10, and BOGY1CH12.
4. One F.C.E. from the following courses: BOGY1CH5, BOGY1CH7, BOGY1CH9, BOGY1CH10, BOGY1CH12, and BOGY1CH13.
5. Two F.C.E.s from the following courses: BOGY1CH5, BOGY1CH7, and BOGY1CH12.
6. One half F.C.E. in either Physics: 360.350 or 460.350.
7. One F.C.E. from MATA150Y or MATA20Y.
8. One F.C.E. from the courses listed by the Division of Humanities, Social Sciences, or Management.

Additional Information
The Specialist Program in Conservation Biology and the Environment has been discontinued. However, students currently registered in this Program will be permitted to complete their degrees. Biology students who are interested in this field may want to consider the Biology stream of the Environmental Science Specialist Program.

BOGY1013 Introduction to Biology
A lecture and laboratory course designed to examine levels of biological organization such as molecules, cells, tissues, organs, organisms, and populations. The introductory biology course in effect, a specific review of the discipline and is a prerequisite for all further courses in biology. The first quarter of the course deals with animal physiology with emphasis on gas exchange, blood circulation, excretion, transpiration, and development. The second quarter examines nutrition, development, and reproduction. In the third quarter cell structure and function, nutrition, excretion, and genetics are considered. The fourth quarter concentrates on ecology and evolution by examining natural selection, speciation, population, community structure, and community dynamics and diversity. Two one-hour lectures and one three-hour laboratory per week.

C. H. W. G. Wakefield

BOGY1153 Cell and Molecular Biology
An introduction to cellular and molecular aspects of cells and organisms. This core course will provide a survey of the methods by which molecules and cells are studied and how genetic information is utilized to affect normal metabolism and to allow the cell to respond to external stimuli. Some of the topics to be covered include: the flow of genetic information from DNA to RNA to proteins, RNA processing, basic mechanisms that control gene expression, metabolism and function of membranes and the maintenance of sub-cellular compartments, energy production and utilization, the cytoskeleton and cell motility, the cell cycle, and intercellular and signal transduction mechanisms. Two one-hour lectures per week, plus one two-hour tutorial every third week.

SPECIALIST PROGRAM IN CONSERVATION BIOLOGY AND THE ENVIRONMENT
The Specialist Program in Conservation Biology and the Environment has been discontinued. However, students currently registered in this Program will be permitted to complete their degrees. Biology students who are interested in this field may want to consider the Biology stream of the Environmental Science Specialist Program.

BOGY1013 Introduction to Biology
A lecture and laboratory course designed to examine levels of biological organization such as molecules, cells, tissues, organs, organisms, and populations. The introductory biology course in effect, a specific review of the discipline and is a prerequisite for all further courses in biology. The first quarter of the course deals with animal physiology with emphasis on gas exchange, blood circulation, excretion, transpiration, and development. The second quarter examines nutrition, development, and reproduction. In the third quarter cell structure and function, nutrition, excretion, and genetics are considered. The fourth quarter concentrates on ecology and evolution by examining natural selection, speciation, population, community structure, and community dynamics and diversity. Two one-hour lectures and one three-hour laboratory per week.

C. H. W. G. Wakefield

BOGY1153 Cell and Molecular Biology
An introduction to cellular and molecular aspects of cells and organisms. This core course will provide a survey of the methods by which molecules and cells are studied and how genetic information is utilized to affect normal metabolism and to allow the cell to respond to external stimuli. Some of the topics to be covered include: the flow of genetic information from DNA to RNA to proteins, RNA processing, basic mechanisms that control gene expression, metabolism and function of membranes and the maintenance of sub-cellular compartments, energy production and utilization, the cytoskeleton and cell motility, the cell cycle, and intercellular and signal transduction mechanisms. Two one-hour lectures per week, plus one two-hour tutorial every third week.
NOTE: Tutorial times alternate with those in BOYB51Y and BOYB51H.
Pre-Requisite: BGA401Y
T.R.A.D. Riggs

BOYB103H Cell and Molecular Biology Laboratory
A practical introduction to experimentation in cell and molecular biology. Six modules will introduce students to concepts and techniques in the general preparation of solutions and buffers, microbiology, molecular biology, biochemistry, microbiology and sample manipulation and communication skills.
This core laboratory course is the gateway for Cell & Molecular biology specialists in upper level laboratory offerings.
The lab will meet twice per week for three hours in order that students acquire fundamental skills necessary for advanced laboratories.

Pre-Requisite: CHM104H
Pre- or Co-Requisite: BOYB10Y
This course is restricted to students enrolled in the Specialist (Co-operative) Program in Cell and Molecular Biology of the Specialist Program in Biological Chemistry of the Major Program in Biochemistry. Additional students will be admitted by instructor if space permits.
D. Riggs

BOYB322H Animal Physiology
A core animal physiology course covering general mechanisms which control and co-ordinate the functioning of the body such as nerve action potentials, synaptic transmission, muscle contraction, cardiovascular system, sensory receptors, and hormonal action. Two one-hour lecture per week, plus one-two hour tutorial every third week. NOTE: tutorial times alternate with those in BOYB51Y.

Exclusions: (BOYB30Y), (NROB30H)
Pre-Requisite: BGA101Y
S. Devor

BOYB131H Plant Physiology
This course provides an introduction to the structure of plant cells, the acquisition and storage of water, dissolved minerals and organic compounds; the use of light energy to convert carbon dioxide to energy-rich compounds; the production and consumption of oxygen, the growth of the plant in relation to earth's gravity and to the gravity of particular areas; and the co-ordinated action of specific enzymes and environmental cues; and adaptations of plants to their environment. Two one-hour lectures per week, plus one-two hour tutorial every third week.

NOTE: Tutorial times alternate with those in BOYB51Y and BOYB51H.
Exclusions: (BOYB30Y), (BOYB32Y)
Pre-Requisite: BGA401Y
G. Vandenberghe

BOYB232H Animal Physiology Laboratory
A course devoted to laboratory exercises in regulatory mechanisms that control and co-ordinate the functioning of the body. Laboratory exercises examine aspects of nerve cell action potential, chemical synaptic transmission in the CNS and its periphery, contraction of isolated muscle, heart rhythmicity, mechanoreception, and firing patterns of fast and slow proprioceptors. Written reports and tests of the laboratory exercises and a formal examination of all the material are required.
One three-hour laboratory per week and a one-hour lecture.
Exclusions: ZOO30Y
Pre- or Co-Requisite: BOYB40H & BOYB51H or (BOYB32Y) or (NROB30H)
C.E. Church

BOYB323H Human Biology I: Development and Anatomy
This course deals with the functional morphology of the human organism. The subject matter extends from early embryologic development to late adult life. Two one-hour lectures and one-two hour laboratory per week.

Exclusions: ANA30Y, ANA30H
Pre-Requisite: BGA101Y, CHM104H
Co-Requisite: At least two F.C.E. from BOYB10Y, BOYB10H, BOYB11H, (BOYB32Y), BOYB51H, BOYB51H
T.R.A.

BOYB202H Ecology
An introduction to the diversity of organisms and their evolution, and their interactions with each other and with their environment. The course introduces the main principles of ecology, with coverage of both community and population ecology, and a special emphasis on how ecology relates to contemporary human and environmental issues. Topics include: the thermodynamics of life, bicoenetic cycles, biome classification systems, stability and change, species response to stability and change, population dynamics, competition, predation, parasitism, herbivory, mutualism, the ecology of infectious diseases, and food webs, the quality of life, and the relationship of marine to terrestrial environments. The course includes field and laboratory exercises, as well as lecture and discussion.
One three-hour lecture per week.
Exclusions: BON105Y
Pre-Requisite: BOYB10Y & (BOYB51H)

BOYB119H Biochemistry I: Proteins & Enzymes
A course designed to introduce students to the properties and behaviour of proteins and enzymes.
The course will analyze factors involved in determining protein structure and the relationships between proteins structure and function. Topics will include: the chemistry of amino acids; the primary, secondary, tertiary and quaternary structure of proteins; proteins and their function; DNA and RNA; the synthesis of proteins; structural proteins; enzymes; and the regulation of enzyme activity.
One three-hour lecture per week.
Exclusion: BCH110Y, BCH112Y,
Pre-Requisite: BGA101Y & CHM104Y
J. Ward

BOYB135H Biochemistry & Biomechanics
A course designed to introduce students to cellular metabolism, the process by which living organisms are able to extract and utilize energy from their environment for the maintenance of life.
Topics will include: basic principles of bioenergetics, chemical oxidation and photophosphorylation; carbohydrate metabolism, aspects of the metabolism of lipids and amino acids; metabolic control mechanisms including allosteric control, protein phosphorylation systems, and hormonal regulation of metabolism. The integration of metabolic pathways will be discussed.
One three-hour lecture each week.
Exclusion: BCH110H, (BCH112Y), BCH312Y
Pre-Requisite: BOYB10Y & CHM104Y
J. Ward

BOYB139H Genetics
A lecture and laboratory course in genetics.
The course will begin with a broad review of transcription and translation, and relevant molecular techniques. The first major segment of the course will include genetic inheritance and its chromosomal basis, gene interactions, and quantitative genetics. The second segment will be a consideration of the source and types of mutations, and the relationship of mutation to genetic disease and evolution. The use of genetics will be integrated into each segment as appropriate.
One three-hour lecture and one, two-hour lab per week; plus one three-hour laboratory.
Exclusions: BCH104H
Pre-Requisite: BGA101Y
BOYC2YH Microbiology & the Bacterial 39
A lecture and laboratory course describing 50 the gross properties of bacterial cells, employing selected organisms to illustrate 200 the role of bacteria in health, medicine, 100 microbiology, the environment and in any 100 self using molecular biology and 200 recombinant DNA approaches. 100 The laboratories include practical 200 training in basic microbiological 100 techniques which are useful in molecular 100 biology and many other fields. 100 The two-hour lecture and one three-hour 100 laboratory a week.
Exclusion: MBY200Y, MFL200Y 100
Corequisites: BOYB50H or BOYB22H 100 or BOYB51H, (BOYB200Y) plus one of the following: 100 BOYB212H or BOYB212H 100 or BOYB213H 100 or BOYB214H 100 or C. Silver

BOYC21H Microbiology: Parasites of the 100 Animal Kingdom 100 A lecture course in which the relationships 100 between micro-organisms and human 100 populations are investigated. Many of 100 these interactions are beneficial (e.g. recombination 100 DNA technology and biotechnology), while 100 others are detrimental (e.g. infections 100 diseases). Examples of both types of 100 interactions will be discussed in gain a 100 perspective on the importance of microbes. 100 The two-hour lecture per week.
Exclusion: BOYC12H 100 Corequisite: BOYC12H 100 C. Silver

BOYC31H Animal Developmental 100 Embryology 100 This lecture course will focus on cellular 100 molecular events which underlie 100 neotal development. 100 The first semester will be devoted to the 100 within the subject of animal 100 embryology. Development of the major 100 developmental events of the vertebrate 100 embryo will be discussed including 100 gastrulation, neurulation, organogenesis, 100 myogenesis, and neurogenesis. 100 The two-hour lecture each week.
Exclusion: BOYB10Y 100 Corequisite: BOYB10Y 100 A. Brown

BOYC20H Comparative Embryology 100 The structure of the vertebrate body 100 systems with reference to their 100 embryological development and evolution. This 100 course compares the development of 100 representative systems from the fertilized 100 egg. Two one-hour lectures per week and 100 one three-hour laboratory every other week.
Exclusion: ANA301H 100 Prerequisite: BOYB10Y or BOYB200Y or BOYB31H, or (BOYB20Y) 100 Corequisites: BOYC21H or BOYB22H 100 C. Pickard

BOYC21H Vertebrate Histology: Cells and 100 Tissues 100 A study of the structure of cells and the 100 various tissue types which make up the 100 vertebrate body: epithelial, connective, 100 muscle, nervous, blood, and lymphatic. 100 Emphasis is placed on the development 100 and function of the cells and tissues. 100 Two one-hour lectures and one three-hour 100 laboratory per week.
Exclusion: BOYB10Y or BOYB200Y or BOYB31H, or (BOYB20Y) 100 Corequisite: BOYC21H 100 L. Ellis

BOYC22H Vertebrate Histology: Organs 100 The histological structure of the major 100 organ systems of the vertebrate body: 100 sense, integration, digestive, respiratory, 100 excretory, reproductive. Particular 100 emphasis is placed on functional 100 morphology, evolution, and development. 100 Two one-hour lectures, and one three-hour 100 laboratory every second week.
Exclusion: BOYB10Y 100 Corequisite: BOYB10Y 100 L. Ellis

BOYC23H Practical Approaches to 100 Biomedical Analysis 100 A course designed to introduce students to 100 a range of experiential approaches used in 100 biomedical research. The course will introduce students to practical and theoretical aspects of a variety of procedures used in a biomedical laboratory including: spectrophotometry; chromatographic procedures; electrophoresis; the use of a radioactive isotope; protein purification. Students will be expected to apply these numerical problems involving these and related procedures. Two one-hour lectures / tutorial plus one 100 four-hour laboratory each week.
Exclusion: BOYB10H 100 Corequisites: BOYB12H or BOYC21H 100 Corequisites: BOYC12H 100 J. Gaud

BOYC25H Plant Histology 100 A plant structure and development course 100 dealing with the main growth centres, cells, and 100 tissues that make up the plant body of 100 herbaceous and woody vascular plants: 100 apical and lateral meristems, parenchyma, 100 collenchyma, sclerenchyma, epidermis, 100 periderm, styems, phloem and secretory 100 structures. Relationships between structure 100 and function, development and the 100 evolution of complex cell types are also 100 considered.
Two one-hour lectures and one three-hour 100 laboratory per week.
Exclusion: BOT541H 100 Prerequisites: BOYB10Y or BOYB200H or BOYB31H, or (BOYB20Y) 100 T.B.A.

BOYC37H Advanced Plant Physiology 100 This course examines aspects of how plants 100 function. An integrated approach is taken, in 100 which topics are examined from 100 physiological, biochemical and molecular 100 biological perspectives. Lecture topics 100 include: cell walls, carbon, nitrogen and 100 energy metabolism; hormones; regulation 100 of gene expression; responses to light, pathogens and 100 environmental stress; lipid and secondary 100 metabolism; resistance transport; and 100 prospects for plant improvement through 100 gene transfer. Laboratories examine processes 100 such as water relations; nutrient relations; 100 hormonal action; photosynthesis; and 100 symbiotic nitrogen fixation.
Two one-hour lectures per week and one 100 three-hour lab or tutorial most weeks.
Exclusion: BOT51Y, BOT51H 100 Prerequisite: BOYB10Y or BOYB200H or BOT51H or (BOYB50Y) 100 G. Vanderlipre

BOYB50H Foundations of 100 Epidemiology 100 An introduction to the theory, practice, 100 methodology and analytic techniques 100 employed in the study of the distribution 100 and determination of disease in human 100 populations. This course will examine aspects 100 of epidemiology such as: observational 100 techniques employed in studying diseases, 100 the meaning of "population" in epidemiology and 100 methodology of sampling, the types of 100 controls employed, the analysis of data, 100 the investigation of epidemics, the designing and 100 assessing of preventative measures, and the 100 application of epidemiology in community 100 health.
Prerequisite: 0.5 F.C.E. B-level Biology 100 course or 0.5 F.C.E. Statistics course 100 P. Thompson

BOYB52H Ecological Field Courses 100 Coverage of basic principles and selected 100 techniques of field and plant ecology. Students 100 will study a variety of aspects of local 100 ecosystems (both aquatic and terrestrial). 100 Five hours of lecture/laboratory per week 100 and/or occasional weekend field trips. 100 Offered in alternate years.
Limited enrollment: 15 100 Exclusion: BOYB50H 100 Prerequisite: BOYB50H or 100 BOYB51H, (BOYB20Y) 100 Co-ordinator: R. Ruestra

BOYB53H Marine Biology 100 A field course on selected topics of marine 100 biology with particular emphasis on trophic 100 webs. This course will be held during mid- 100 February at a field station in the Caribbean 100 and will have a considerable practical 100 component. Prior to field work, there will be 100 a series of lectures at UTSC. On site, 100 students will study three main habitat types: 100 rocky shore, open ocean, and coral reef. In 100 addition, students will work on individual 100 field projects.
Limited enrollment: 14 100 Exclusion: BOYB50H 100 Prerequisites: BOYB50H and BOYB51H or 100 (BOYB20Y) or ESOC04H or permission of the instructor* 100 D.D. Williams 100 *As this course is often oversubscribed, interested students must contact the instructor well in advance of the start 100 of the fall term for details and must, at 100 that time, be prepared to place a deposit 100 towards airfare and accommodation. 100 Places are allocated on a first-come, first-served basis.

BOYB54H Animal Behaviour 100 A broad survey of the study of animal 100 behaviour from the perspectives of 100 behavioural ecology and ethology, with 100 emphasis on animal autonomy, behaviour 100 patterns in the context of evolutionary theory. 100 Topics include evolution of behaviour, 100 sexual selection, sexual conflict, parental 100 care, parent-offspring conflict, social 100 behaviour and social learning, ethology, 100 and hypothesis testing in behavioural research. 100 Students will examine original scientific 100 papers in addition to the course textbook to gain a thorough understanding of current 100 research in animal behaviour. 100 One three-hour lecture and one-hour 100 laboratory per week.
Exclusion: ZOO230H 100 Prerequisites: BOYB200H or BOYB22H (BOYB20Y) 100 M. Andreadis
BGY072H3 Mammalian Endocrinology
A study of the roles of hormones in mammalian physiology, with an emphasis on the regulation of metabolism, reproduction, growth, and stress responses. The course will cover the endocrine system, including theocrine and paracrine signaling pathways, and their interactions with the nervous system. Prerequisite: BGY071H3. Limited enrolment: 30. Enrolment by permission of the instructor.

BGY073H3 Molecular Biology and Evolution
This course explores the molecular basis of evolution, including the evolution of genetic variation, the role of natural selection, and the processes of speciation. Prerequisite: BGY071H3 or equivalent. Limited enrolment: 25. Enrolment by permission of the instructor.

BGY074H3 Developmental Biology
An introduction to the principles of developmental biology, with a focus on the molecular and cellular mechanisms that underlie development. Prerequisite: BGY071H3 or equivalent. Limited enrolment: 20. Enrolment by permission of the instructor.

BGY075H3 Neuroendocrinology
A study of the regulation of endocrine function by the nervous system. Prerequisite: BGY071H3 or equivalent. Limited enrolment: 20. Enrolment by permission of the instructor.

BGY076H3 Environmental Toxicology
An examination of the effects of pollutants on ecosystems structure and function. Prerequisite: BGY071H3 or equivalent. Limited enrolment: 25. Enrolment by permission of the instructor.
MAT41H. MATA20Y is strongly recommended over MATA20Y in order that future course selection is not compromised.

Second Year:

BOGY1Y Cell and Molecular Biology
BOGY12H Laboratory for Cell and Molecular Biology
CHMB12H Introduction to Organic Chemistry
CHMB44Y Introduction to Organic Chemistry

Second or Third Year:

CHMB10H Techniques in Analytical Chemistry
CHMB22Y Introductory Physical Chemistry

Third Year:

BOGY12H Biochemistry I: Proteins and Enzymes
BOGY13H Biochemistry II: Metabolism and Bioenergetics
BOGY22H Practical Approaches to Biochemistry
CHMB44H Bio-OrgChem

Fourth Year:

CHMC11H Principles of Analytical Instrumentation and Inorganic Chemistry
CHMC41H Organic Reaction Mechanisms
CHMC42H Organic Synthesis

Fourth Year:

PSCC02H Current Questions in Mathematics and Science

At least 0.5 F.C.E. from the following:

BOGY12Y Directed Research Project
BOGY22Y Directed Research Project
CHMB20Y Introduction to Research
CHMB29Y Directed Research
CHMB32H Directed Research
PSCC10H Physical Sciences Project

And, in appropriate years 1.0 F.C.E. (1.5 F.C.E. if CHMB91H or PSCC10H is taken) from the following list:

MATB41H Techniques of Calculus of Several Variables I
CHMB55H Environmental Chemistry
PSCB37H Composting

or any other C- and D-level Chemistry or PSC courses, and C- or D-level BGY courses for which BOGY10Y is a prerequisite.

SPECIALIST PROGRAM IN CHEMISTRY

Supervisor: K. A. Henderson

This Program is open for students who are interested in obtaining a strong background in all aspects of modern chemistry. The Program requires completion of 14.0 F.C.E. as follows:

First Year:

CHMA01Y General and Introductory Organic Chemistry
MATA26Y Calculus
PHYA10H Dynamics of Classical Systems
PhysA10H Principles of Modern Physics
and 1.0 F.C.E. chosen from:
ASTA03Y Introduction to Astronomy
BOGY10Y Environmental Hazards
BGSY10Y Introduction to Planetary Earth
EESA06H Linear Algebra
MATA23H Introduction to Scientific Computing
PSCB27H Statistics

Second Year:

CHMB16H Techniques in Analytical Chemistry
CHMB22Y Introductory Physical Chemistry
CHMB33H Introduction to Inorganic Chemistry
CHMB44Y Introduction to Organic Chemistry
MATA41H Techniques of Calculus of Several Variables I

Third Year:

CHMC11H Principles of Analytical Instrumentation and Inorganic Chemistry
CHMC41H Organic Reaction Mechanisms
CHMC42H Organic Synthesis

Fourth Year:

PSCC02H Current Questions in Mathematics and Science

At least 0.5 F.C.E. from the following:

CHMB29Y Directed Research Project
CHMB32H Directed Research
PSCC10H Physical Sciences Project

At least 0.5 F.C.E. from the following:

CHMB22Y Directed Research Project
CHMB32H Directed Research
PSCC10H Physical Sciences Project

MAJOR PROGRAM IN CHEMISTRY

Supervisor: J. Potter (416-287-2222)

This Program offers the possibility of obtaining an introduction to all of the sub-disciplines of Chemistry. Students should complete the following 7.5 courses:

First Year:

CHMA01Y General and Introductory Organic Chemistry
MATA26Y Calculus
or MATA29Y Introduction to Mathematical Modeling
PHYA10H Dynamics of Classical Systems
PhysA10H Principles of Modern Physics

Second and Later Years:

4.5 F.C.E. Chemistry courses, including at least one "C-" level half course with a laboratory.

** PHYS 110 is not an acceptable substitute for **

PHYA10H or PHYA20H or PHYS21H

** Students should note that if they are going to select CHMB22Y, then MATA26Y or MATA29Y or PHYA10H or PHYS21H are prerequisites. If MATA26H is chosen, CHMB32H and MATB41H are prerequisites.

MAJOR PROGRAM IN BIOCHEMISTRY

Supervisor: J. Potter (416-287-2222)

This Program places greater emphasis on the biological aspects of chemistry than does the general Chemistry Major Program. It is offered for students who are primarily interested in chemistry but also want to study the chemistry of living systems.

Students should complete the following 8.0 F.C.E.:

First Year:

BOGY10Y Introductory Biology
CHMA01Y General and Introductory Organic Chemistry

Second and Later Years:

BOGY10Y Cell & Molecular Biology
BOGY12H Cell & Molecular Biology Laboratory
BOGC21H Biochemistry I: Proteins & Enzymes
BOGC31H Biochemistry II: Bioenergetics & Metabolism
BOGC23H Practical Approaches to Biochemistry
CHMB16H Techniques in Analytical Chemistry
CHMB44Y Organic Chemistry I
CHMC41H Organic Reaction Mechanisms
CHMC42H Organic Synthesis

and 0.5 F.C.E. from the following:

MATA26Y Introductory Physical Chemistry
CHMB22Y Directed Research
PHYS21H Introduction to Scientific Computing

** If CHMB22Y is chosen, CHMA01Y, MATA26Y or PHYS21H are required.

MA1021Y3 General and introductory Organic Chemistry

This course will introduce the study of chemical transformations of matter, from a macroscopic and microscopic perspective. It starts with a qualitative description of gases, solids and solutions, and develops ideas of bonding and structure in chemical compounds. Reactions and equilibrium in chemical systems are explored through their thermodynamic properties and chemical kinetics. Stereochemistry, acid-base equilibria, organic functional groups and fundamental reactions of organic molecules will be covered, with an emphasis on mechanistic understanding.

Three lectures per week. One three-hour
CHMC115H1 Analytical Instrumentation

A laboratory course to complement CHMC111, Principles of Analytical Instrumentation. This course will provide a practical introduction to the use of modern chemical instrumentation with a focus on the sampling, sample preparation (extraction, clean-up, concentration, derivatization), instrumental trace analysis and data interpretation of environmental samples. Lab sessions will allow students to gain experience in using some of the analytical instrumentation utilized in modern research laboratories.

Preerequisite: CHMC111

BOGY235H Biochemistry II: Proteins & Enzymes

A course designed to introduce students to the properties and behaviour of proteins and enzymes.

The course will analyze factors involved in determining protein structure and the relationship between protein structure and function. Topics will include: the chemistry of amino acids; the primary, secondary, tertiary and quaternary structures of proteins; protein motifs and protein domains; glycopolymers; lipoproteins; protein-protein and protein-DNA interactions; the analysis of the interaction of small molecules with proteins; classical enzyme kinetics and allosteric enzymes; mechanisms of enzyme action.

Three one-hour lectures per week. Exclusions: (BOCY235Y), (BCCY335Y).

Prequisite: (BIOY205Y) or (BGY210Y) & CHMB44Y

J.W. Gard

CHMC311H Principles of Analytical Instrumentation

An introduction to the workings of modern instrumental analysis. Principles of measurement, detection of proteins, electrons and ions; instrument and experimental design; amplification methods; noise reduction techniques and signal-to-noise optimization. Emission and absorption spectroscopy, electrochemical methods and separation techniques will be covered. One two-hour lecture per week.

Exclusion: CHMC111Y

Prequisite: CHMB42H1

Recommended: CHMB22Y

CHMC115H1 Analytical Instrumentation

A laboratory course to complement CHMC111, Principles of Analytical Instrumentation. This course will provide a practical introduction to the use of modern chemical instrumentation with a focus on the sampling, sample preparation (extraction, clean-up, concentration, derivatization), instrumental trace analysis and data interpretation of environmental samples. Lab sessions will allow students to gain experience in using some of the analytical instrumentation utilized in modern research laboratories.

Prequisite: CHMC111

BOGY235H Biochemistry II: Proteins & Enzymes

A course designed to introduce students to the properties and behaviour of proteins and enzymes.

The course will analyze factors involved in determining protein structure and the relationship between protein structure and function. Topics will include: the chemistry of amino acids; the primary, secondary, tertiary and quaternary structures of proteins; protein motifs and protein domains; glycopolymers; lipoproteins; protein-protein and protein-DNA interactions; the analysis of the interaction of small molecules with proteins; classical enzyme kinetics and allosteric enzymes; mechanisms of enzyme action.

Three one-hour lectures per week. Exclusions: (BOCY235Y), (BCCY335Y).

Prequisite: (BIOY205Y) or (BGY210Y) & CHMB44Y

J.W. Gard

CHMC311H Principles of Analytical Instrumentation

An introduction to the workings of modern instrumental analysis. Principles of measurement, detection of proteins, electrons and ions; instrument and experimental design; amplification methods; noise reduction techniques and signal-to-noise optimization. Emission and absorption spectroscopy, electrochemical methods and separation techniques will be covered. One two-hour lecture per week.

Exclusion: CHMC111Y

Prequisite: CHMB42H1

Recommended: CHMB22Y

BOGY235H Practical Approaches to Biochemistry

A course designed to introduce students to a range of experimental approaches used in biochemical research.

The course will introduce students to practical and theoretical aspects of a variety of procedures used in the biochemical laboratory including: spectrophotometry; chromatographic procedures; electrophoresis; the use of radioisotopes; protein purification. Students will be expected to solve numerical problems arising from the detailed procedures.

One two-hour lecture/tutorial plus one four-hour laboratory each week.

Exclusions: (BOCY235Y), (BCCY335Y).

Exclusion: (BOCY335Y), (RCY316H), (BCCY335Y), (BCCY314H). (BGY335Y).

Prequisite: BOGY210H or BOGY212H or (BIOC335Y)

Concurrent: BOGY213H (for students who have not completed BIOC335Y only)

J.W. Gard

CHMC311H Intermediate inorganic Chemistry

A more detailed discussion than in CHMC311L of the structure, bonding, spectroscopy and reactivity of main group, transition metal and organometallic compounds. Special topics may include inorganic solids and materials, biologically and environmentally important inorganic compounds, and catalysis. The laboratory will introduce a variety of synthetic techniques, with characterization by both classical and instrumental methods. Two hours of lectures per week, and two-hour laboratory each week.

Prequisite: CHMC311L

Concurrent: CHMC1131H, CHMC114H, CHMC22Y.

Replace CHMC335H & CHMC355H

CHMC411H Organic Reaction Mechanisms

Theory and mechanisms of organic reactions; principles of structure, introduction to isotope labelling, spectroscopy and polymers. Theories of bonding. The laboratory experiments are designed to complement the topics covered in lectures.

Two one-hour lectures and a three-hour laboratory per week. Offered in alternate years with CHMC421H.

Exclusions: CHMC347H, CHMS348

Prequisite: CHMB44Y
City Studies

City Studies (B.S.)

Faculty List
N. Blythe, B.Sc., D.Sc. (Leicester), M.Sc. (Memorial University, NFLD.), Ph.D. (East Anglia), Professor
J. Hassegan, B.A., M.A. (Western Ontario), Ph.D. (Ohio State), Professor
J. R. Miltin, B.A. (Queen's), M.A. (Prov.), M.Sc., Ph.D. (Toronto), Professor
E. Ralph, B.A., M. Phil. (London), Ph.D. (Toronto), Professor
M. E. Ruvas, B.A., Ph.D. (Sheffield), Associate Professor
L. Sawchuck, B.A., M.A. (Montreal), Ph.D. (Toronto), Associate Professor
A. Blake, B.A. (Sask.), Ph.D. (American), Assistant Professor

Supervisor of Studies: TBA

A Major Program for students interested in professional and career paths that may be city-oriented: e.g., architecture, city planning, real estate brokerage, real estate development, housing, law, property, real estate appraisal, property management, social work, social and city policy, city environmental management, and city transportation policy.

The Program equips students with the background knowledge and skills needed to think broadly about the relationships between these related professions and the growth, sustainability, and livability of cities. Students may use certification in a Major Program in City Studies as a requirement towards a 3-year or Honors B.A. The Major Program in City Studies is multidisciplinary: it is designed to give students the opportunity to see how they might apply ideas from classes in the social sciences and related disciplines in their field of professional interest.

MAJOR PROGRAM IN CITY STUDIES

The Major Program in City Studies requires a total of 7 F.C.E.'s, with requirements in the areas of social science theory, methods, applications, and an advanced seminar.

1. Introduction to Social Science Thought (at least 3 F.C.E.'s from among the following over and above the requirements of any other program to which the student seeks certification).

ANTA01Y Introduction to Anthropology

HITA01H Plagues and Peoples

POLA51H Critical Issues of Canadian Democracy [Plus another half-course in POL at the A-level (POL350, Canadian Politics, may be substituted)]
SOC200Y Introduction to Sociology
GORA51Y Global Processes and Local Environments
ECMA05Y Introduction to Economics

2. Fundamentals of City Studies (at least 2 F.C.E.'s from among the following):

ANTB56H Health and the Urban Environment

3. Methods (at least 1 F.C.E. from among the following):

SOCB07Y Methods in Social Research
SOCB10H Social Statistics

4. Applications (at least 1.5 F.C.E.'s from among the following):

ANTC40Y Anthropological Demography
EC233H Urban Environmental Problems of the Greater Toronto Area
ENED91H The City in Nineteenth Century Literature
GRC04H Urban Residential Geography
GRC13H Urban Physical Geography
GRC13H Greater Toronto Area
GRC13H Urban Transportation Policy Analysis
HESC07Y Urban Lives and Cultures: The Americas, 1800-1990
POLC53Y Politics of the Environment
POLC55Y Canadian Public Policy and the Environment
SOC00H Collective Behaviour
SOC00H Social Movements
SOC00H Sociology of Urban Growth

5. Core course (0.5 F.C.E.):
CITY10H Cities and Strategies

A culminating course wherein students get to showcase the application of their acquired skills, and share their professional and disciplinary interests in a common case study.
Students are reminded that many of the courses above have prerequisites and that it is the responsibility of the student to ensure that they satisfy these requirements.

**MAJOR (CO-OVERATIVE) PROGRAM IN CITY STUDIES**
Graduates will receive an Honours B.A. degree wherein they must complete the Major (Co-operative) Program in City Studies with one of the following:
- Major Program in Anthropology
- Major Program in Economics for Management
- Major Program in Environmental Science
- Major Program in History
- Major Program in Human Geography
- Major Program in Political Science
- Major Program in Sociology
- Major Program in Studio
- Major Program in Women's Studies

The Program is intended to complement the chosen academic discipline and to give students the opportunity to see how they might apply ideas from that discipline in their field of professional interest. The Major (Co-operative) Program in City Studies combines academic studies in various disciplines with work placements in private enterprise, the public sector, or non-governmental organizations. It includes all of the requirements of the Major Program listed above, viz., 7 F.C.E. as specified. In addition, students must successfully complete the non-credit course "Introduction to Humanities and Social Sciences Co-op" and two work terms. For details on admissions, fees, work placements and standing in the Program, please see the Calendar section Co-operative Programs: General Information, page 55.

**Work Terms**
Students must satisfactorily complete two work terms, each of four months duration. To be eligible for the first work term, students must have completed at least 10 F.C.E.’s, including 5 F.C.E.’s as a UTSC student. These may include at least one F.C.E. drawn from each of areas (Introduction to Social Science - Thought, Cultural Foundations of City Studies, and III (Methods). They must also have completed the following: City Life, City Humanities & Social Sciences Co-op and be advised that being available for work terms during fall and winter may increase the variety of work available, and this in turn requires students to take courses during at least one summer session.

**COURSES NOT OFFERED 2002/2003**

**Cit2003**
City Issues and Strategies
Prerequisite: Students will have already completed all program requirements (1) Introduction to Social Thought, (2) Fundamentals of City Studies, and (3) Methods

**Classical Studies (B.A.)**

**Faculty List**
- J. Waecht, M.A. (Carleton), Professor Emeritus
- J.R. Corbett, M.A., Ph.D. (Toronto), Associate Professor
- L.R. McDonald, B.A. (Alberta) Ph.D. (N. Carolina), Associate Professor

**Discipline Representative:** J.R. McDonald (416-287-7128)

**Classical Studies** introduces the student to the Greek and Roman World, its literature, history, religion and government. Greco-Roman civilization was the cradle of western culture and the direct antecedent of much of what is central and familiar in contemporary Canadian society. Its achievements in many fields still set the standards by which modern endeavors are judged. In most courses the original ancient Greek and Latin texts come alive in English translation, and the computer-based Perseus project in the Blades Library presents sophisticated multi-media opportunities for exploring the ancient Greek and Roman world.

**MINOR PROGRAM IN CLASSICAL STUDIES**
Supervisor: J.R. McDonald (416-287-7128)
The Minor Program in Classical Studies offers a limited but coherent curriculum in Classical studies for students interested in studying the Greek and Roman world while pursuing a more wide ranging course of studies in a number of related disciplines. For the Minor Program in Classical Studies, students must complete four full-course equivalents to be selected as follows:
1. CLA202Y Greek and Roman Mythology
2. CLA205Y The Mediterranean World
3. Two half courses (one F.C.E.) from:
   - CLA209H Greek & Latin for Scientists
   - CLA210H The Classical World in Film
   - CLA211H Army and Empire in the Roman World
   - VPA210H Ancient Art and Architecture (ca. 900 BC to 300 AD)

**CLA211H Selected Topics in Classical Literature**
and one of:
- CLA212H Selected Topics in Classical Civilization
- CLA213H Classics and the Computer
- CLA214H Slavery in the Roman Economy
- VPA246H Special Topics in Art of the Ancient World

**CLA209Y Greek and Roman Mythology**
The emergence and treatment of myths and legends in the Greco-Roman World.
The course will examine some important myths and legends and their representation in classical literature, drama, and art, and will partly be concerned with ancient and modern theories of myth.
This course will be useful to students engaged in literary and art-historical studies and will serve as an introduction to other courses in classics.
Exclusions: (HUMA11), CLA236, CLA205 T.B.A.

**CLA210Y The Mediterranean World**
A survey of the civilizations which flourished around the Mediterranean Sea in ancient times.
The primary focus will be on the Roman Empire: a brief survey of the history of the near east and Greece in the classical period (ca. 600-300 B.C.) will serve to set the historical context.
The course will begin by defining the Mediterranean region in relation to Africa, the Middle East and Europe. Students will then be introduced to the distinctive natural environment of the Mediterranean Basin with emphasis on how the natural processes shaping the societies which flourished there. A brief survey of near eastern and Greek History from early times until the rise of Rome will prepare students for a more extended study of the Roman Empire at its height (from Caesar to Constantine). This course will make use of a variety of literary sources (all read in English translation) and archeological evidence.
J.H. Corbett
Cognitive Science (B.Sc.)

Faculty List
R.I. Bressack, M.A., Ph.D. (Chicago), Professor
G. Heriz, B.A., B.Sc., M.Sc. (A.N.U., U.B.C.), Ph.D. (Brown), Professor
J.M. Kennedy, B.Sc., M.Sc. (Belfast), Ph.D. (Cornell), Professor
A. Kukla, A.B., A.M., Ph.D. (UCLA), Professor
C.M. MacLeod, B.A. (McGill), Ph.D. (Washington), Professor
M.A. Schumicker, B.A. (SUNY-Binghamton), Ph.D. (Cornell), Professor
W.J. Seager, M.A. (Alberta), Ph.D. (Toronto), Professor
M.C. Smith, B.A. (Toronto), Ph.D. (MIT), Professor
S. Sedivy, B.A. (Toronto), Ph.D. (Pittsburgh), Associate Professor
R. Smith, B.A. (Carleton), M.Sc., Ph.D. (Alberta), Associate Professor

Supervisors: W.E. Seager, (Room H23), 416-287-7121; seager@uwo.ca

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 scientists are 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 concerns questions like: Are we born with some knowledge already in place? How does our experience of the world allow us to develop knowledge? Is knowledge stored as visual images, words, or abstract propositions? 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?

The Cognitive Science Program (Major 2, Minor 3) offers courses in psychology, linguistics, computer science and psychology to answer these questions. The Programs are excellent preparation for students interested in teaching in junior schools, who should add a course in Philosophy of Education, and obtain practical teaching experience. They are also an excellent base for students interested in careers in Speech Pathology, who should add courses in human physiology. Also, they prepare students for careers in Psychology and Philosophy, and are good adjuncts for careers in Computer Science and Neuroscience.

First-Year Students in Cognitive Science LINA01Y, PHIL01Y and PSY01Y recommended in first year of intending to pursue a Specialist or Major Program in Cognitive Science.

SPECIALIST PROGRAM IN COGNITIVE SCIENCE
Supervisor: W.E. Seager, (Room H23), 416-287-7121; seager@uwo.ca

NOTE: The Specialist Program consists of 12 F.C.E.'s, Some are specified courses. Three and one-half are to be selected from four fields: (1) Psychology/Neuroscience, (2) Linguistics, (3) Philosophy, and (4) Computer Science. The recommended year for taking the specified courses is given in parentheses.

Specified Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINA01Y</td>
<td>General Linguistics (Year 1)</td>
</tr>
<tr>
<td>PHIL01Y</td>
<td>Fundamental Questions of Philosophy (Year 1)</td>
</tr>
<tr>
<td>PSY01Y</td>
<td>Introduction to Psychology (Year 1)</td>
</tr>
<tr>
<td>LINB04H</td>
<td>Practical Language Analysis: Phonology (Year 2)</td>
</tr>
<tr>
<td>LINB06H</td>
<td>Practical Language Analysis: Syntax (Year 2)</td>
</tr>
<tr>
<td>PHIL08H</td>
<td>Belief, Knowledge and Truth (Year 2)</td>
</tr>
<tr>
<td>PHIL09H</td>
<td>Foundations of Cognitive Science (Year 2)</td>
</tr>
<tr>
<td>PSYB07H</td>
<td>Data Analysis in Psychology (Year 2)</td>
</tr>
<tr>
<td>PSYB13H</td>
<td>Perception and Cognition (Year 2)</td>
</tr>
<tr>
<td>PSYB17H</td>
<td>Memory and Cognition (Year 2)</td>
</tr>
<tr>
<td>LINB05H</td>
<td>Practical Language Analysis: Morphology (Year 3)</td>
</tr>
<tr>
<td>PHIL01H</td>
<td>Theory of Mind (Year 3)</td>
</tr>
<tr>
<td>PSYCY4H</td>
<td>Cognition and Representation (Year 3)</td>
</tr>
<tr>
<td>PSYCS5H</td>
<td>Psychobiology (Years 3 or 4)</td>
</tr>
<tr>
<td>PSYCA6H</td>
<td>Introduction to Computer Programming</td>
</tr>
<tr>
<td>PSYCA9H</td>
<td>Introduction to Computer Science</td>
</tr>
</tbody>
</table>

NOTE: Students with no familiarity with the use of computers would be advised to take PSYCA0H in their first year, followed by PSYCA0H in the following year. Students having familiarity with computers, but not computer programming skills, may wish to take PSYCA0H in the first or second year. Only students with computer programming experience should attempt PSYCA5H without first taking PSYCA0H. Students may wish to consult with the Supervisor of Program before deciding on the most appropriate computer science course sequence.

1. Psychology/Neuroscience
One and one-half full-course equivalents chosen from the following:

- PSYB20H: Introduction to Developmental Psychology
- PSYB51H: Sensation and Perception
- PSYB56H: Human Brain and Behaviour
- PSYB58H: Advanced Data Analysis in Psychology
- PSYB59H: Developmental Psychology Laboratory
- PSYC54H: (Psychometric Methods Laboratory)
- PSYC56H: Psychology of Music
- PSYCS5H: History of Psychology
- PSYD55H: Current Topics in Memory and Cognition
- PSYD56H: The Scientific Study of Consciousness and Unconscious Influences
- PSYD59H: Computational Models of Memory
- NROB0H: Neuroscience I: Cell Anatomy and Physiology
- NROB1H: Neuroscience II: Learning and Motivation
- NROC6H: Neuroscience III: Sensory and Motor Systems
- NROCS9H: Neurochemical and Molecular Organization of the Brain
- NROD2H: Neuroplasticity
- COGC31H: The Scientific Study in Cognitive Science

2. Linguistics
One full-course equivalents chosen from the following:

- PSYB07H: Perception and Cognition (Year 2)
- PSYB13H: Memory and Cognition (Year 2)
- PSYCY4H: Cognition and Representation (Year 3)
- PSYCS5H: Psychobiology (Years 3 or 4)
- PSYCA6H: Introduction to Computer Programming
- PSYCA9H: Introduction to Computer Science

NOTE: Students may substitute (COGC01H) for PSYB13H to satisfy Cognitive Science Program requirements for Specified Courses. If this option is selected, PSYB13H may be used to satisfy Cognitive Science Program requirements in the Psychology list.

COURSE NOT OFFERED 2002/2003

CLA61H3: Slavery in the Roman Economy

Examinations: (GRIH03D)

Prequisites: CLAR05Y or (HSA01Y) or HIS05Y
Computer Science

COGS391H1

COGS4293H1

Supervised Study in Cognitive Science

Supervised read or research project. These courses provide an opportunity to pursue advanced study in a specialized area following the appropriate scheduled courses and in close consultation with the supervisor. They are not intended as a substitute for scheduled advanced courses. A written report or paper is normally required. Students are advised that they must obtain consent from the supervising instructor before registering for these courses.

Prerequisites: These P.C.E.'s are at the B- or C-level in COG and/or LIN and/or FSY; permission of the supervisor.

Session: Winter Day
T.B.A.

Computer Science (B.Sc.)

Faculty List

C.C. Dyck, B.Sc., (Bishop) M.Sc., Ph.D., (Toronto) Professor
W.H. Sampson, B.Sc., (U.B.C.), M.Sc., Ph.D., (Toronto) Professor
V. Hadzihalilovic, B.A. (Princeton), Ph.D. (Harvard) Professor
A. Jacobson, B.S., M.S.E., M.A., Ph.D., (Princeton) Professor
M. Molloy, Ph.D. (Carleton-Millen) Associate Professor
W. Chappell, B.Sc., Senior Lecturer
G.J. Crippa, B.Sc., (U.B.C.) Senior Lecturer
G. Lottin, B.Sc., M.Sc., (Toronto) Senior Lecturer
A. Rose, B.Sc. (University of British Columbia) Senior Lecturer
C. Jensen, B.Sc., M.Sc., (Toronto) Lecturer
R. Fowkes, B.Sc., (Toronto) Lecturer

Discipline Representative: M. Molloy (416-507-7725)

Computer science is the study of the use of computers to process information. The form of this information may vary widely, from the business person's records or the scientist's experimental results to the linguist's texts. One of the fundamental concepts in computer science is the algorithm - a list of instructions that specify the steps required to solve a problem. Computer science is concerned with producing correct, efficient, and maintainable algorithms for a wide variety of applications. Closely related to the development of tools to foster these goals are programming languages for expressing algorithms; operating systems to manage the resources of a computer, and various mathematical and statistical techniques to study the correctness and efficiency of algorithms.

Theoretical computer science is also concerned with the inherent difficulty of problems that can make them intractable by computers. Numerical analysis, data management systems, computer graphics, and artificial intelligence are concerned with the applications of computers to specific problem areas.

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

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

Note on Admission to CSC Courses

All CSC courses beyond the A-level, except for CSC 740H, are limited enrolment with preference being given to students admitted to and enrolled in CSC programs. If, towards the end of the registration period, spaces become available in CSC courses, enrolment may be open to some non-program students. No students other than those admitted to and enrolled in a first-year or first-year-based program may be admitted. The following rules will apply:

• Admissibility for the course(s) must be satisfied
• If a student is not in a CSC program and he/she does not have a cumulative G.P.A. of at least 2.5, then he/she cannot take any B- or C-level course, except CSC 740H
• If a student is not in a CSC program AND if he/she does not have a cumulative G.P.A. of at least 3.0 then he/she cannot take any C- or D-level course
• Permission to enroll must be confirmed by designated persons in CSC. Details will be kept on web site during registration.

Please refer to the Physical Sciences Scarborough pamphlets and/or to the section for information on how to apply for admission to a Program.
SPECIALIST PROGRAM IN COMPUTER SCIENCE
1. General Stream
2. Information Systems Stream
3. Joint Mathematics Stream
4. Joint Physics Stream
5. Joint Statistics Stream
6. Software Engineering Stream

Admission to the Program
Each year, 90 students are admitted to the six streams of the Specialist Program in addition to those admitted to the Specialist Co-operative Program. There are three possible ways to be admitted:
1. Directly from Secondary School. Up to 40 students will be admitted directly from high school on the basis of academic performance. Applicants must have completed OAC Calculus and OAC Algebra and Geometry.
2. At the End of 1st Year. Applicants must have completed ALL the courses in the first year of their stream(s) of the Specialist Program. Students applying for admission on completion of their first year (at least 4 P.C.E.'s) will be accepted on the basis of their 1st year G.P.A. and their marks in Computer Science and Mathematics courses. The minimum G.P.A. to guarantee acceptance is calculated annually. It is never less than 2.00 and for 2002 will not be greater than 3.50.
3. Admission After 2nd Year. Admission of students after second year will also be on the basis of the grades they have received in Computer Science and Mathematics courses.

Students applying at the end of their first year or later will be considered together for a total of at least 40 places in the Specialist Program. As noted above, a G.P.A. of 2.80 and above will guarantee acceptance (provided the required first year computer science and calculus courses have been satisfactorily completed).

In order to remain in the Program, a student must maintain a cumulative G.P.A. of 2.0 or higher throughout the Program.

The courses may be taken in a different order or year from those listed below, but care must be taken to ensure that their prerequisites are satisfied and conflicts avoided.

Common 1st Year Core for All Streams of the Program
The following courses are common to all streams of the Program and should be taken in the 1st Year. Students should note that the Information Systems Stream and Joint Physics Stream have an additional 1st Year requirement.

- CSCA06H - Introduction to Computer Programming
- CSCA58H - Introduction to Computer Science
- MATA23Y - Linear Algebra I
- MATA24Y - Calculus
- STAT22H - Statistics

1. General Stream
   Supervisor: R. Parcer (416-287-7679)

Second Year:
- CSCB28H - File Structures and Data Management
- CSCB38H - Discrete Mathematics
- CSCB39H - Computer Organization
- CSCB70H - Fundamental Data Structures and Techniques
- MATE24H - Linear Algebra II
- MATE84H - Techniques of the Calculus of Several Variables I
- MATE84H - Techniques of the Calculus of Several Variables II

Two of:
- MATH311H / MATH313H, MATH43H, MATH47H, MATB44H, MATC34H, PSCD20H

Students intending to proceed to graduate school in Computer Science are advised to take MATH43H.

Third Year:
- STAB47H - Introduction to Probability Theory and Mathematical Statistics
- CSCB29H - Methods and Tools for Software Development
- CSCC34H - Principles of Programming Languages
- CSCC35H - Computational Complexity and Compatribility
- CSCC37H - Data Structure and Algorithm Analysis
- CSCC36H - Numerical and Optimization

Fourth Year:
- CSCC35H - Numerical Approximation, Interpolation and Ordinary Differential Equations
- CSCC31H - Microprocessors

One of:

One of:
- CSCC34H, CSCC34H, CSCC49H, CSCC45H, MATB81H, MATC31H, MATH34H

PSCD30H - Computers in Contemporary Society

Information Systems Stream
Supervisor: R. Parcer (416-287-7679)

MOTB25H - Managing Groups and Organizations

* The prerequisite of MOTB25H is waived for students in this Program.

Third or Fourth Year:
- CSCB39H - Methods and Tools for Software Development
- CSCD081 - Software Engineering
- CSCD34H - Data Management Systems

At least one of:
- MGTB53H - Operations Management: A Mathematical Approach
- MGTB54H - Analysis for Decision Making
- CSCB45H - The Business of Software

Two of:

PSCD31H - Computers in Contemporary Society

Software Engineering

** Students in this Program may substitute MATB411H, CSCC53H or CSCC54H or CSCC54H and STAB47H for the stated prerequisites.

*** This course is offered only in alternate years and enrollment is restricted.

Note that 300-series and 400-series must be completed at the St. George Campus. Consult the Department of Computer Science Undergraduate Student Handbook or consult the web site http://www.cs.utoronto.ca.

3. Joint Mathematics Stream
Supervisor: R. Parcer (416-287-7679)

This stream offers a broadly based education in Computer Science and Mathematics. It prepares a student for a professional position in the computer field and is appropriate for students who wish to pursue a career in teaching or in government or industry. It can also lead to graduate study.
58 Computer Science

Second Year:
- Discrete Mathematics
- Fundamental Data Structures and Techniques
- Linear Algebra
- Techniques of the Calculus of Several Variables I
- Techniques of the Calculus of Several Variables II
- Introduction to Analysis
- Geometry I
- Probability Theory and Mathematical Statistics

Third Year:
- Principles of Programming Languages
- Computational Complexity and Computability
- Data Structures and Algorithm Analysis
- Ordinary Differential Equations
- Differential Equations
- Fields and Groups

Fourth Year:
- Methods for Software Development
- Programming Languages
- Numerical Algebra and Optimization
- Data Structures and Algorithm Analysis
- Differential Equations
- Philosophy of Science

4. Joint Physics Stream

Second Year:
- Classical Theory of Physics
- Modern Physics

Third Year:
- Principles of Programming Languages
- Numerical Algebra and Optimization
- Data Structures and Algorithm Analysis
- Complex and Composability

Fourth Year:
- Numerical Analysis
- Integration and Ordinary Differential Equations
- Computational
- Composability

1. 0.5 P.C.E. from MATCH and C-level STA courses and 300- and 400-level STA courses on the St. George campus.

Second Year:
- Course in Mathematics
- Computer Organization
- Data Structures and Techniques
- Linear Algebra II
- Techniques of the Calculus of Several Variables I
- Probability Theory and Mathematical Statistics

Third Year:
- Methods for Software Development
- Programming Languages
- Numerical Algebra and Optimization
- Data Structures and Algorithm Analysis
- Complex and Composability

Fourth Year:
- Numerical Algebra and Optimization
- Integration and Ordinary Differential Equations

1. 0.5 P.C.E. from MATCH and C-level STA courses and 300- and 400-level STA courses on the St. George campus.

6. Joint Statistics Stream

Supervisor: M. Evans (416-267-7274)
This stream provides a student with the computational and statistical background required in many applications of this field. The Program prepares students for employment opportunities in business, government, and education and for graduate study.

Second Year:
- File Structure and Data Management
- Computer Organization
- Data Structures and Techniques
- Linear Algebra II
- Techniques of the Calculus of Several Variables I

Third Year:
- Introduction to Probability Theory and Mathematical Statistics
- Comparison
- Data Structures and Techniques
- Linear Algebra II
- Techniques of the Calculus of Several Variables I

Fourth Year:
- Introduction to Probability Theory and Mathematical Statistics
- Probability Theory and Mathematical Statistics

1. 0.5 P.C.E. from MATCH and C-level STA courses and 300- and 400-level STA courses on the St. George campus.

6. Software Engineering Stream

Supervisor: R. Panzer (416-267-7679)
Software engineering is concerned with the timely and cost-effective development of quality software. This Program leads to employment opportunities in software development and to graduate study in computer science.

Second Year:
- File Structure and Data Management
- Computer Organization
- Data Structures and Techniques
- Linear Algebra II
- Techniques of the Calculus of Several Variables I

Third Year:
- Introduction to Probability Theory and Mathematical Statistics
- Probability Theory and Mathematical Statistics

Fourth Year:
- Methods for Software Development
- Programming Languages
- Numerical Algebra and Optimization
- Data Structures and Algorithm Analysis
- Complex and Composability

Third or Fourth Year:
- Microprocessors
- Software Engineering
- Computer Graphics
- Data Management Systems
Students are individually responsible to ensure that they have correctly completed program and degree requirements for graduation.

MAJOR PROGRAM IN COMPUTER SCIENCE

Supervisor: R. Parmer (416-287-7679)

NOTE: Registration in this Program is limited. A maximum of 30 students will be admitted annually to the second year of the Program. Selection will be based on the first year G.P.A. and marks in first-year courses in Computer Science and Mathematics. The minimum G.P.A. is calculated annually. It is never less than 2.00 and for 2002 will not be greater than 2.80.

Eight F.C.E.'s are required. The courses needed are not determined by the order given, but care must be taken to ensure that prerequisites are satisfied and conflicts avoided.

First Year:
CSCA00H Introduction to Computer Programming
CSCA21H Linear Algebra I
MAT223H Calculus

Second Year:
CSCB22H Data Structures and Data Management
CSCB38H Discrete Mathematics
CSCB70H Computer Organization
CSCB70R Fundamental Data Structures and Techniques

MAT224H Linear Algebra II

MAT241H Techniques of the Calculus of Several Variables I
MAT242H Techniques of the Calculus of Several Variables II

Third or Fourth Year:
Four half-credits to be chosen from the following options:

(i) at least one of: CSCC09H, CSCC25H, CSGC45H, CSGC46H, CSGC49H, CSGC55H, CSGC57H, CSGC65H, CSGC66H, CSGC70H, CSGC76H, CSGC89H

(ii) at least one of: CSCC78H, CSCC94H, CSGC44H, CSGC49H, CSGC65H, CSGC66H, or any other 0.5 F.C.E. in CSC at the B-level or higher or MAT444H

Laboratory Work in Computer Science Courses:
While only a few of the computer science courses have formally scheduled laboratory components (e.g. CSCC55H and CSCC56H), most CSC courses will require an average of 4-6 hours of laboratory work a week (in one of the CSC labs) to complete the programming assignments associated with the course. The CSC labs are open on extended schedule and students are encouraged to use these facilities at times that are convenient to them.

CSCA29H The Why and How of Computing

An introduction to computers and how to use them.

This course includes a study of system operations (commands, files, security), common applications (data bases, word processing, spreadsheets) and problem solving (basic programming concepts). Other applications and topics include: data organization, communication, office automation, electronic mail, and internet tools. Students will do a little programming, but the aim of the course is to show how computers can be used, not to teach programming. Primarily for non-science students, but may be followed by other CSC courses.

Two hours of lectures per week, two hours of tutorial per week and four to five hours of laboratory work (on average) per week.

Exclusions: CSCA10H, VCO10H

Fourth or Fifth Year:
Four half-credits to be chosen from the following options:

(iii) at least one of: CSCC78H, CSCC94H, CSGC44H, CSGC49H, CSGC65H, CSGC66H, or any other 0.5 F.C.E. in CSC at the B-level or higher or MAT444H

Laboratory Work in Computer Science

Two hours of lectures per week, four to five hours of laboratory work (on average) per week.

Exclusions: CSCA55H, CSCA56H, CSCA74H

Pre requisite: Grade 12 mathematics

NOTE: You may take CSCA55H after CSCA56H but you may not take CSCA56H after or concurrently with CSCA55H.

CSCA55H Introduction to Computer Science


Object-oriented programming in language such as Java. Specifications. Analyzing the correctness and efficiency of programs using mathematical reasoning. Recursion. This course assumes programming experience in an object-oriented language such as C++ or Java, as provided by CSCA56H. Students who already have this background may consult the Instructor or Supervisor of Studies for advice about skipping CSCA55H. Students who enroll in CSCA55H and find the course too difficult may "drop down" to CSCA56H in terms when CSCA56H is offered. The deadline for "dropping down" is the end of the fifth week of classes.

CSCA56H Introduction to Computer Programming

Programming in the UNIX environment using the C programming language. Topics from: practicable program design, the ideas of programming, the structure and its components, and the programming language, constructing code, programming simple programs, designing and coding, common programming pitfalls and techniques, writing and testing programs, debugging programs, programming in the UNIX environment using the C programming language. Topics from: structured programming, programming in the UNIX environment using the C programming language. Topics from: structured programming, programming in the UNIX environment using the C programming language. Topics from: structured programming, programming in the UNIX environment using the C programming language. Topics from: structured programming, programming in the UNIX environment using the C programming language. Topics from: structured programming, programming in the UNIX environment using the C programming language. Topics from: structured programming, programming in the UNIX environment using the C programming language. Topics from: structured programming, programming in the UNIX environment using the C programming language.
CSCB3H3: File Structures and Data Management
An introduction to techniques for storing, accessing, and managing long-term data in computer systems. File design and synthesis, file types and access methods, file organisation techniques, and network file system design. Introduction to database management systems with emphasis on relational database data bases.

Two hours of lecture per week, one hour of tutorial per week and four to five hours of laboratory work (on average) per week.
Exclusion: CSC228H
Prerequisite: CSCB3H4

CSCB3H4: Discrete Mathematics for Computer Science
A rigorous treatment of certain aspects of discrete mathematics, with applications to Computer Science. Topics include mathematical induction, proof techniques, divisibility, recurrences and the binomial theorem.

Three hours of lecture per week and one hour of tutorial per week.
Exclusion: CSC218H
Prerequisite: CSCA3H2

CSCB4H3: Computer Organization
This course is designed to give students an understanding of the architecture and the operation of a modern digital computer. Specific topics include: introduction to Boolean algebra, the design and analysis of gate networks, memory devices, the operation of a simple micro-Programmed machine, basic data representation, assembly language, addressing structures and devices for input and output, the structure of peripheral devices, some case studies of actual microprocessors or machines. There will be four laboratory periods in which students will conduct experiments with digital logic circuits. Two hours of lecture per week, one hour of tutorial per week and four to five hours of laboratory work (on average) per week.
Exclusion: CSCB2H8
Prerequisite: CSCA38H8 or (CSCA57H1) or PCB57H

CSCB7H3: Fundamental Data Structures and Techniques
Studying the programming of data structures with an introduction to C and C++. Graph representation and graph algorithms: graph simulation: Data structures and program organization for event-driven models, Representation of floating-point numbers, Introduction to numerical methods, optimization using dynamic programming, data representation, assignments stress both the proper use of abstract data types and approaches to writing larger, more complex programs. Two hours of lecture per week, one hour of tutorial per week and four to five hours of laboratory work (on average) per week.
Exclusion: CSCA3H2
Prerequisite: CSCB3H4
Pre or co-requisite: MAT2A2Y

CSCC0H6: Programming on the Web
An introduction to software development on the web. Concepts underlying the development of programs that operate on the web; survey of technological alternatives, greater depth on some technologies. Operational concepts of the internet and the web, static client content, dynamic client content, dynamically served context, n-tiered architectures, web development processes and security on the web. Assignments involve increasingly more complex web-based programs. Guest lecturers from leading e-commerce firms will describe the architecture and operation of their web sites.

Two lectures per week plus a one-hour tutorial.
Exclusion: CSCC0H6
Prerequisite: CSCB0H1, CSCB2H8

CSCC0H7: Principles of Programming Languages
Alternate paradigms for programming, ill-structured and non-functional languages. Students already familiar with the procedural approach of languages such as Turing, Pascal or C will learn about functional programming (illustrated by Lisp or Scheme) and logic programming (illustrated by Prolog). Additional topics in principles of programming languages.

Two hours of lecture per week, one hour of tutorial per week and four to five hours of laboratory work (on average) per week.
Exclusion: CSCC0H6, CSCC2H6, CSCC3H1
Prerequisite: CSCA57H1 or PCB57H or CSCI57H1 or MATB34H & MATB43H

CSCC1H7: Numerical Approximation, Integration and Ordinary Differential Equations
Analysis of methods for approximation, integration, and the solution of ordinary differential equations. Emphasis on the convergence and stability properties of the algorithms, rather than on their implementation. Two hours of lecture per week, one hour of tutorial per week and four to five hours of laboratory work (on average) per week.
Exclusion: CSCC2H2, CSCI57H1, CSCC3H4
Prerequisite: CSCC5H8

CSCC4H4: Computer-Based Simulation Models
Constructing and using models of complex systems. Representing models as simulation programs for computers. Implementing simulation models using such simulation languages as GPSS and DynaMO. Methods of generating uniformly distributed pseudo-random numbers and stochastic random variables with specific distributions. Validation of simulation models by statistical analysis. Case studies of some applications of computer-based simulation.

Two hours of lecture per week, one hour of tutorial per week and four to five hours of laboratory work (on average) per week.
Exclusion: CSCC5H4
Prerequisite: CSCB70H, STAB4HT

CSCC4H9: Computational Complexity and Computability
General techniques for efficient algorithm design: greedy algorithms, dynamic programming, other topics may include network flow, linear programming, randomized algorithms, introduction to complexity theory: models of computation, the classes P and NP, polynomial time reducibility and NP-completeness, provably hard problems, reduction to the theory of computability: Church's thesis, computable and non-computable functions, reductions, the analogues between complexity and computability theory.

Two hours of lecture per week and one hour of tutorial per week.
Exclusion: CSCC4H6
Prerequisite: CSCB3H8

CSCC7H4: Data Structures and Algorithm Analysis
Abstract data types such as priority queues and dictionaries. Advanced data structures for handling ordered information, such as binary heaps, leftist trees, self-adjusting binary trees and red-black trees. Algorithmic analysis: worst case, average case, and amortized costs. Introduction to lower bounds. Emphasis in giving algorithms and general treatment of the data structures.

Two hours of lecture per week, one hour of tutorial per week and four to five hours of laboratory work (on average) per week.
Exclusion: CSCC7H8
Prerequisite: CSCB70H & CSCB3H8 & STA101H. The latter prerequisite is effective in Fall 2002

CSCC5H4: Numerical Analysis
The study of computational methods for solving problems in linear algebra, non-linear equations, approximations, integration, and ordinary differential equations. The aim is to give students both a basic understanding of floating-point arithmetic and the methods used to solve numerical problems as well as a familiarity with the types of subroutines found in typical software packages.
Exclusion: ACT232H, 252H, 356H, 358H, 359H, CSC593H, CSC583H, Pre or co-requisite: CSCB3H4

CSCC0H6: Analysis and Design of Information Systems
Theory, tools and techniques of information systems analysis and design. Topics include: theory of systems and organizations (organization theory, systems life cycle, role of the systems analyst); information systems analysis (data collection, requirements analysis, structural analysis, system modeling, cost-benefit analysis, information system design (structured design, top-down development, file and database design)); information system implementation (project management, documentation, acceptance testing, hardware and software evaluation and acquisition); and user interface design.

Two hours of lecture per week, one hour of tutorial per week and four to five hours of laboratory work (on average) per week.
Exclusion: CSCC5H4
Prerequisite: CSCB3H8

CSCC4H5: Numerical Analysis
The efficiency and stability of solution techniques for systems of linear equations and least squares problems, including LU- and QR-based methods. Algorithms for optimization problems, including linear programming, and for systems of nonlinear equations.

Two hours of lecture per week, one hour of tutorial per week and four to five hours of laboratory work (on average) per week.
Exclusion: CSCC3H8, CSCC5H8, CSCC1H7
Prerequisite: (CSCA57H1 or PCB57H or CSCI57H1) & MATB34H & MATB43H

CSCC7H4: Numerical Approximation, Integration and Ordinary Differential Equations
Analysis of methods for approximation, integration, and the solution of ordinary differential equations. Emphasis on the convergence and stability properties of the algorithms, rather than on their implementation. Two hours of lecture per week, one hour of tutorial per week and four to five hours of laboratory work (on average) per week.
Exclusion: CSCC2H2, CSCI57H1, CSCC3H4
Prerequisite: CSCC5H8
CSCD549H Data Management Systems

Concepts, approaches, and techniques in data base management systems (DBMS); data and information management; logical models of data bases; relational, network, and hierarchical DBMS's; operational requirements; implementation considerations; DBMS architecture; data base design. Two hours of lecture per week, one hour of tutorial per week and four to five hours of laboratory work (on average) per week.

Exclusion: CSC844H
Pre-requisite: CSC838H

CSCD546H Computer Networks

Computer communication network principles and practices. The OSI protocol-layer model; Internet applications and networking; transport layer and congestion avoidance; network layer and routing; link layer with local area networks, connection-oriented protocols and error detection and recovery; multimedia networking with quality of service and multimedia. Principles in the context of the working-code model implemented in the Internet. Two hours of lecture per week, one hour of tutorial per week and four to five hours of laboratory work (on average) per week.

Exclusion: CSC445H
Pre-requisites: CSC344H & CSC378H & (CSC399H or proficiency in C)

CSCD535H Computer Science Project

This half-course involves a significant project in any area of computer science. The project may be undertaken individually or in small groups. The course is offered by arrangement with a computer science faculty member, at Scarborough or the St. George campus. This course is intended for students specializing in computer science. It can be taken as a full course or one or two semesters. Projects must be completed by the last day of classes in the term or session the course is taken.

Students are advised that they must obtain consent from the supervisor of studies before registering for this course.

Exclusion: CSC411H
Pre-requisites: [Three C-level computer science courses at 300 level] & [a GPA of 2.50] & [permission of the program supervisor]

CSCD593H Computer Science Project

Same description as CSCD491H. Normally a student may not take two project half-courses on closely related topics or with the same supervisor.

If an exception is made allowing a second project on a topic closely related to the topic of an earlier project, higher standards will be applied in judging it. We expect that a student with the experience of a first project completed will be able to perform almost at the level of a graduate student.

Students are advised that they must obtain consent from the supervisor of studies before registering for this course.

Exclusion: CSC493H

CO-OPERATIVE PROGRAMS: GENERAL INFORMATION

Co-operative Programs are work-study programs designed to integrate realistic practical experience with academic studies. All co-op programs are either Specialist or Major Programs and may be taken only as part of a four-year degree. Major co-op programs must be combined with another major program. Because of the time required for the work placements, some co-op programs may take up to five years to complete.

No student may be enrolled in more than one co-op program. For a listing of co-op programs, the academic supervisors, and the sponsoring academic divisions, see page 19 of this Calendar.

Admission to Co-op Programs

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

For direct admission from secondary school, applicants must indicate the special code for the appropriate Scarborough campus program on the form Application For Admission To An Ontario University. Once the University of Toronto is notified of the application, students are asked to complete the appropriate supplementary Co-operative Program Application Form.

For admission following the first year of university study, whether taken at UTSC, on other campuses of the University of Toronto, or at similar universities, applicants must obtain the appropriate Co-operative Program Application Form and submit it by April 15 of the calendar year on how to obtain the application materials, and information about the minimum qualifications for entry to each program following first year, see the Table on pages 57 and 60 of this Calendar and the Co-operative Program Application Form.

Every student in a co-op program is required to pay additional co-op fees as established by the University. The co-op fees relate to costs associated with the administration of work placements and are calculated in accordance with Ministry of Education and University of Toronto policies. Beyond this, there are no additional fees associated with the work term nor with the non-co-op tuition required by most programs. If a student leaves the program for any reason, co-op fees paid at earlier sessions are not refundable.

Program Requirements

Co-op programs require at least eight-four month terms of study, and the satisfactory completion of two or three four-month work terms, as specified by the particular program. Work terms are graded Pass/Fail and their completion is recorded on the transcript as a twenty full-course academic credits needed for graduating. To maintain good standing in a co-op program, an eligible student is required to:

- Follow the course of study described for the specific program within the general requirements for the Honours B.A., B. Sc. and B. A. degree;
- Maintain a cumulative grade point average (CGPA) of at least 2.5 (note that this is higher than the CGPA of 1.6 required for good standing in regular non-co-op programs);
- Complete the non-credit tutorial and any required co-op courses for the work term as required by the specific program;
- Read the policies and procedures for work term performance and work term evaluation and be familiar with how to obtain the application materials, and information about the minimum qualifications for entry to each program following first year, see the Table on pages 57 and 60 of this Calendar and the Co-operative Program Application Form.

Register as a full-time student during study terms (i.e., a course load in each
study term of at least two full course equivalents and normally two and one-half.
- Remedial work to be advised by the University.

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

Introduction to Co-op Tutorial
During their first year of enrollment in a co-op program, students will participate in a co-op tutorial designed to prepare them for their work term experience and to maximize the benefits to be obtained from the associated learning opportunities. The tutorial will cover a variety of topics to help students develop the skills and tools they will need to secure placements that best match their interests, and to perform professionally in the workplace. The tutorial is in addition to the 20 full-course degree requirements, but satisfactory participation is essential before students may go on work term. No academic credit is given for the tutorial and no fee is charged. For the name of the tutorial appropriate to each program, see the relevant program description.

Work Terms
Work terms are an integral part of the co-op program curriculum. Practical work experience in a related field is undertaken to enhance academic studies and develop professional and personal skills. Work terms normally begin in September, January, or May, and students are normally eligible for a work placement after three or four academic terms of full-time study, as specified for individual programs. Work placement opportunities are arranged by the Co-op Office for the program, but must be won by students in competition with all applicants for the positions. Both the employer and the coordinator for the program will evaluate the student's performance on work terms. Students must also submit a report on each work term for evaluation. The report must be submitted no later than the end of the second week of the study term immediately following the completion of the work term. Standing in the program, ability to proceed with further work placements, and graduation will be jeopardized if deadlines are not met. To be eligible for the first work term, students must be in good standing in the program (see above, under Program Requirements) and have completed any other requirements specified by the particular program. To be eligible for later work terms, students must be in good standing in the program, have completed any requirements specific to the program, and have received a satisfactory evaluation for their performance and for their report on their earlier work term(s).

Course Requirements
For the academic courses required, see the calendar entry for each specific program.

| Humanities          | 4 F.C.E. inc. VPA050H & 1 other F.C.E. in  
|                     | VPA; G.P.A. 2.5 min.  
|                    | 4 F.C.E. inc. VPA050H & 1 F.C.E. in Art  
|                    | History; G.P.A. 2.5 min.  
|                    | 4 F.C.E. inc. VPA050H; interview; G.P.A.  
|                    | 2.5 min.  
|                    | 4 F.C.E. inc. VPA050H, G.P.A. 2.5 min.  
|                    | 4 F.C.E. inc. ENGA11Y & ENGA12H;  
|                    | G.P.A. 2.5 min.  
|                    | 4 F.C.E. inc. ENGA11Y & ENGA12H;  
|                    | G.P.A. 2.5 min.  
|                    | 4 F.C.E. inc. FREN145F; G.P.A. 2.5 min.  
|                    | 4 F.C.E. inc. HIS10Y or 1 F.C.E. at the B-  
|                    | level in HIS; G.P.A. 2.5 min.  
|                    | 4 F.C.E. inc. HIS10Y or 1 F.C.E. at the B-  
|                    | level in HIS; G.P.A. 2.5 min.  
|                    | 4 F.C.E. inc. LINN10Y; G.P.A. 2.5 min.  
|                    | 4 F.C.E. inc. VPA050H & 1 F.C.E. in Music;  
|                    | G.P.A. 2.5 min.  
|                    | 4 F.C.E. inc. 1 F.C.E. in PHI; G.P.A. 2.5  
|                    | min.  
|                    | 4 F.C.E. inc. LINN10Y & FSA01Y; G.P.A.  
|                    | 2.5 min.  
|                    | 4 F.C.E. inc. VPA050H and 1 F.C.E. in  
|                    | Studio; G.P.A. 2.5 min.  
|                    | 4 F.C.E. inc. WSCN1Y; G.P.A. 2.5 min.  
| Life Sciences       | 5 F.C.E. inc. BGY10Y, CHMA10Y,  
|                    | MATA20Y (or MATA26Y), and PHYA10H;  
|                    | G.P.A. 2.75 min.  
|                    | 4 F.C.E. inc. FSA01Y; G.P.A. 2.5 min.  
|                    | OAC Cal. rec.  
| Management          | 4 F.C.E. inc. ECMC20Y, MGT20Y &  
|                    | MATA275M/MATA28Y; G.P.A. 3.0 min.  
|                    | OAC Cal.  
|                    | 4 F.C.E. inc. MGT20Y, ECMC20Y &  
|                    | MATA275M/MATA36Y; G.P.A. 3.0 min.  
| Physical Sciences   | 5 F.C.E. inc. ASTA10Y, MATA20Y,  
|                    | PHYA10Y, & PHYA20Y; G.P.A. 2.5 min.  
|                    | 5 F.C.E. inc. BGY10Y & CHMA10Y  
|                    | (CHMA10Y); G.P.A. 2.5 min.  
|                    | 5 F.C.E. inc. CHMA10Y (CHMA20Y);  
|                    | MATA20Y, PHYA10Y/PHYA20Y, &  
|                    | PHYA21H; G.P.A. 2.5 min.  
|                    | 5 F.C.E. inc. CHMA10Y (CHMA20Y);  
|                    | MATA20Y, PHYA10Y/PHYA20Y,  
|                    | PHYA21H; G.P.A. 2.5 min.  
|                    | 5 F.C.E. inc. ASTA10Y, MATA20Y,  
|                    | PHYA10Y, & PHYA20Y; G.P.A. 2.5 min.  
|                    | 5 F.C.E. inc. BGY10Y & CHMA10Y  
|                    | (CHMA10Y); G.P.A. 2.5 min.  
|                    | 5 F.C.E. inc. CHMA10Y (CHMA20Y);  
|                    | MATA20Y, PHYA10Y/PHYA20Y, &  
|                    | PHYA21H; G.P.A. 2.5 min.  
|                    | Continued  

Co-operative Programs: General Information
### Economics for Management Studies (B.B.A., B.A.)

#### Faculty List
- D. Hyatt, B.A., M.A., Ph.D. (Toronto), Professor
- M. Krabinsky, S.B. (MIT), M. Phil., Ph.D. (Yale), Professor
- L.C. Parker, B.A. (Manitoba), M.A. (Toronto), Ph.D. (Yale), Associate Professor
- M. Campbell, B.Sc., M.A., Ph.D. (Toronto), Associate Professor
- G. Cleveland, B.A. (Dalhousie), M.A., Ph.D. (Toronto), Associate Professor
- W. Rejali, B.A. (Western Ontario), M.A., Ph.D. (Toronto), Associate Professor
- H. Krabinsky, B.A. (Queen's), M.A., Ph.D. (Princeton), Associate Professor
- J. Parkinson, B.A. (Western Ontario), M.A., Ph.D. (Toronto), Associate Professor
- G. Georgopoulos, B.A. (Western), M.A. (Toronto), Lecturer

Economics studies how consumers and producers interact in a market economy to provide goods and services. Economics also studies how this process grows and changes over time, and under what circumstances it may fail to function in an optimal fashion. Economic policies to remedy those failures are also examined. In the Division of Management, the study of economics is continued primarily to the needs of students interested in management studies. Thus many of our examples will focus on the ways in which firms and consumers in market economies interact. However, students interested in the wide variety of problems considered by economists will find those matters are also addressed in our courses.

The curriculum provides an excellent background for careers in business, government, and the professions, and may be of considerable interest to students specializing in other disciplines as well.

### Social Sciences
- Anthropology (S) - B.A./B.Sc.
- City Studies (M) - B.A.
- Health Studies (M) - B.A./B.Sc.
- International Studies (M) - B.A.
- International Development Studies (S) - B.A./B.Sc.
- Public Policy (M) - B.A.
- Sociology (S) - B.A.

### Drama/Economics for Management Studies

Students may focus their study of economics in the specialist co-op Program as part of the B.B.A., or may choose major or minor in economics as a stream in the B.B.A. Program. There is also a joint specialist Program with political science. Finally, economics plays a significant role within the general B.A. Program. Students wishing to pursue a graduate program in Economics will require some additional courses in Economic Theory not offered at Scarborogh. Such students should consult with the Undergraduate Secretary of the Department of Economics at the St. George campus, or the graduate secretary of the Department of Economics where they intend to do further work to determine what additional courses would be required to do graduate work in this field. The Supervisor of Studies at Scarborough can help you with this task.

#### Programs in Economics for Management Studies

Students generally apply to enter a program at the end of their first year. Late admission is also possible. Students should consult the detailed discussion below. The following Programs are offered:

1. **Specialist (Co-op) in Economic Policy Management and Data Analysis** - a specialist degree with a strong emphasis on applied courses dealing with the economic policy process, and including Co-op work terms. This Program is consistent with a two-year course degree (B.B.A.) described in detail below.

2. **Specialist in Political Science & Economics for Management Studies** - a specialist degree with equal amounts of Economics and Political Science (six courses each), consistent with a twenty-course degree (B.A.). Described in detail below.

3. **Major in Economics for Management Studies** - program of six full courses of Economics for Management Studies, one-half course in Mathematics and one of Humanities, consistent with either a fifteen-course or a twenty-course degree (B.A.). Described in detail below.

4. **Minor in Economics for Management Studies** - program of four full courses of Economics for Management Studies, consistent with either a fifteen-course or a twenty-course degree (B.A.). Described in detail below.
Other Programs with a substantial component of Economics for Management Studies

5. Specialist in Management (B.B.A.) - a program emphasizing Management but including four full courses in Economics for Management Studies, leading to a B.B.A. degree. Students may elect to take additional specified courses in Economics for Management Studies to qualify for designation within the Economic Data Analysis stream. Described in detail in the Management section of the Calendar.

6. Specialist (Co-op) in Management (B.B.A.) - same as #5 above, but also includes Co-op work terms.

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

Admission to Programs in Economics for Management Studies and in Management

1. All students, even those who have been directly admitted into the Division from high school (and who are guaranteed admission into programs in the Division), must formally apply to specific programs after four courses have been completed. Decisions are made on program admissions by the Supervisor of Studies only twice a year, in May and in August. These decisions are based on program requirements and are submitted to the Registrar (see winter pre-registration instructions in the provided at that time by the Registrar). Only transfers from other Carleton courses are admitted after students have completed ten credits. Students should have a clear idea of how they plan to admission to programs in the Division of Management. Note that enrollment in ECMB102, ECMB106, ECMB111 and ECMB12 will be limited to program students.

2. Those students directly admitted into the Division from high school or guaranteed entry into a program in the Division in May (a limited number of students are directly admitted to Co-op Programs who will be accepted into Co-op Programs after first year). Directly admitted students must maintain a G.P.A. of 2.0 or greater after completing eight credits in order to remain in these programs.

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

Economics for Management Studies Courses with Limited Enrolment

Students who have been admitted to all the Specialist and Major programs listed above are guaranteed access to enough courses in Economics for Management Studies to complete their programs. To protect that access, students must register early in the registration process. After a period during which program students are given priority, access to all remaining spaces in Economics for Management courses will be opened to all students in the University on a first-come, first-served basis. In some years, students not admitted to Programs may find it difficult or impossible to obtain any specific course in Economics for Management Studies.

THE CO-OPERATIVE PROGRAM IN ECONOMIC POLICY MANAGEMENT AND DATA ANALYSIS

Supervisor: T.B.A.

The co-operative program in Economic Policy Management and Data Analysis - B.B.A. (EPMDA) is a work-study program which combines academic studies with work experience in public and private enterprises. EPMDA is designed to allow students to learn practical skills of data analysis to characterize their co-operative experience. Students will gain knowledge and field and professional experience. For information on admission, fees, work placements, and standings in the Program, please see the Calendar section Co-operative Programs: General Information, page 63.

Program Requirements

The co-operative Program in Economic Policy Management and Data Analysis requires the completion of the following minimum requirements as part of a twenty-course degree (B.B.A.).

1. 8.5 F.C.E.'s in Economics for Management Studies, including

2. MAT271H and CSC203H.


4. The co-op program management options as described in the B.B.A. Program in the Management section of the Calendar.

5. At least 1.5 F.C.E. from courses within the Division of Humanities.

Students should be aware that the mathematics requirement implies that OAC Calculus is a prerequisite for entry to this Program.

Work Terms

This program requires three work terms, the first one of which may be combined with course work. While some students will work at regular co-op placements arranged through the B.B.A. co-op office, a select group of students in this program may obtain placements working with faculty in the Division of Management during the 2-year period of courses. There will be two further work terms, outside the University, on a full-time basis. These will normally be scheduled during the summer. These will generally be placements with professional economists working for financial institutions, government organizations, or elsewhere. Students must maintain a 3.0 G.P.A. in order to go out on these work terms. Students must complete the Introduction to Management Co-op Tutorial before undertaking a work term.

Recommended Schedule of Courses

Students in, or intending to enter, the Co-op Program in EPMDA are advised to take the following courses in their first or second year:

First Year: EACMA02Y, MGT201Y, MGT202H, MAT271H, CSC203H.

First Summer: ECMB302H, ECMB304H, ECBM111H, ECBM12H.

Specialist Program in Political Science and Economics for Management Studies

Supervisor: T.B.A.

NOTE: Registration in this Program is limited.

Students must have completed a minimum of four courses to be considered for this Program. Students with 4.0 course credits will be considered on the basis of G.P.A. including ECMAD0Y/ECMA02Y. Students with 3.5 course credits will be considered on the basis of G.P.A. including ECMAD0Y/ECMA02Y.

Six full-course equivalents are required in each of the two disciplines, as specified below. Students must also complete at least four full-course equivalents in disciplines other than Political Science and Economics for Management Studies.

Required Courses in Economics for Management Studies

Six full-course equivalents, made up of the following:

ECMA02Y or EACMA02Y
ECMB104H or ECMB02H
ECMB006H or ECMB02H
ECMB111H and ECMB12H
ECMB13H or ECMB136H or ECMB136H or ECMB21H
ECMB271H or ECMB006H

Two more F.C.E.'s in ECM, including at least one at the C-level.

Required Courses in Political Science

Six full-course equivalents, including the following:

POLA31H or POLB30Y

One F.C.E. from each of any three of the following fields:


B. Public Administration and Public Policy: POLC31Y, POLC35Y (POLB60), POLD60H, POLD60H (POLC60), POLD64H

C. International Relations: POLA68H, POLB68Y, POLC30Y, POLC36Y, POLC38Y

D. Comparative Politics, Industrial Countries: POLA11H, POLB18Y, POLC35Y, POLC36Y, POLD63H, POLD64H

E. Comparative Politics, Developing Countries: POLA96H, POLB99Y, POLC69Y, POLC79H, POLC79H

NOTE: More than two courses at the A-level may be counted toward program requirements. EPC201Y is substituted for the first requirement (POLA51 or POLB50) above, if it is also used to satisfy the Canadian Government field requirement.

Major Program in Economics for Management Studies

Supervisor: T.B.A.

NOTE: Registration in this Program is limited.

Students must have completed a minimum of four courses to be considered for this Program. Students with 4.0 course credits will be considered on the basis of G.P.A. including ECMAD0Y/ECMA02Y. Students with 3.5 course credits will be considered on the basis of G.P.A. including ECMAD0Y/ECMA02Y.
course credits will be considered on the basis of O.P.A. including ECOM107Y, ECOM108Y, ECOM111, ECOM112, and one of ECOM272H, ECOM280H or ECOM281H. Students should be aware that the MAT requirement implies that OAC calculus is a requirement for entry into this program. This Program is designed to give a core exposure to the subject matter of Economics for Management Studies 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 for Management Studies, one-half course in Mathematics, and one full-course in Humanities. The Economics courses must include:

ECMA02Y, ECOM125H, ECOM126H, ECOM111H or ECOM112H, ECOM205H or ECOM206H, and two full-course equivalents chosen from the courses in Economics for Management Studies including at least one at the C-level. Students must also complete MAT272H and one F.C.E. in Humanities.

Students who take ECOM05Y and then decide to apply for this program will be permitted to substitute ECOM125Y for ECOM107Y. However, these students will be required to complete MAT272H before registering for ECOM125H and ECOM126H.

MINOR PROGRAM IN ECONOMICS FOR MANAGEMENT STUDIES

Supervisor: T.B.A.

Note: Registration in this program is not limited. However, some requirements, particularly those at the C-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 in students pursuing three or four year degrees. These students will have to combine this minor with other minors or majors in order to graduate. Students need not have completed OAC calculus in order to enter this program.

The program consists of four full-course equivalents in Economics for Management Studies as follows:

ECMA02Y (or ECOM107Y) or ECOM108Y (ECMA02Y), ECOM111H or ECOM112H, ECOM205H or ECOM206H, and ECOM111H or ECOM112H.

Two more F.C.E.'s in Economics for Management Studies, including at least one at the C-level.

ECMA02Y3 Introduction to Economics: A Mathematical Approach

A study of economic theory and its application to contemporary Canadian economic problems. Problems discussed will include: unemployment, inflation, competition, monopoly. Calculus, algebra and graphs are used extensively in this course to illustrate economic analysis. This course is oriented primarily toward students planning to complete the Specialist Program in Political Science and Economics for Management Studies, the Minor Program in Economics for Management Studies, and programs for IDS. The course will also be useful to economics students interested in an elective course in this subject. Three hours of lecture per week and one hour tutorial per week.

Exclusions: ECOM125Y (ECMA02Y), ECOM126H, ECOM204H, ECOM205H, ECOM206H, ECOM120Y, ECOM125Y. Students who have completed ECOM125Y may be admitted with the permission of the supervisor of studies and must complete MAT272H as a further prerequisite.

ECMA03Y3 Introduction to Economics

A study of economic theory and its application to contemporary Canadian economic problems. Problems discussed will include: unemployment, inflation, competition, monopoly. Although calculus is not used in this course, algebra and graphs are used extensively to illustrate economic analysis. This course is oriented primarily toward students planning to complete the Specialist Program in Political Science and Economics for Management Studies, the Minor Program in Economics for Management Studies, and programs for IDS. The course will also be useful to students interested in an elective course in this subject. Three hours of lecture per week and one hour tutorial per week.

Exclusions: ECOM125Y (ECMA02Y), ECOM126H, ECOM204H, ECOM205H, ECOM206H, ECOM120Y, ECOM125Y. Students who have completed ECOM125Y may be admitted with the permission of the supervisor of studies and must complete MAT272H as a further prerequisite.

ECMA040Y Macroeconomic Theory and Policy

Intermediate level development of the principles of macroeconomic theory. Topics covered include: theory of output, employment and the price level. Three hours of lecture per week and one hour tutorial per week.

Exclusions: ECOM107Y (ECMA02Y), ECOM111H, ECOM206H, ECOM208H, ECOM209H, ECOM210H, ECOM243Y. Students who have completed ECOM107Y may be admitted with the permission of the supervisor of studies and must complete MAT272H as a further prerequisite.

ECMA081H3 Price Theory

Intermediate level development of the principles of microeconomic theory. The emphasis is on static partial equilibrium analysis. Topics covered include: consumer theory, theory of production, theory of the firm, perfect competition. Limited enrolment: 10 per section.

Exclusions: ECOM107Y, ECOM111H, ECOM125Y, ECOM126H, ECOM120Y, ECOM204H, ECOM205H, ECOM206H, ECOM208H, ECOM209H, ECOM210H, ECOM243Y, ECOM272H. Students who have completed ECOM107Y may be admitted with the permission of the supervisor of studies and must complete MAT272H as a further prerequisite.

ECMA082H3 Price Theory: A Mathematical Approach

Intermediate level development of the principles of microeconomic theory. The course will cover the same topics as ECOM107Y, but will employ techniques involving calculus so as to make the theory clearer to students. Enrolment is limited to students registered in programs requiring this course. Limited enrolment: 10 per section.

Exclusions: ECOM107Y, ECOM111H, ECOM125Y, ECOM126H, ECOM120Y, ECOM204H, ECOM205H, ECOM206H, ECOM208H, ECOM209H, ECOM210H, ECOM243Y. Students who have completed ECOM107Y may be admitted with the permission of the supervisor of studies and must complete MAT272H as a further prerequisite.

ECMA083H3 Quantitative Methods in Management

An introduction to statistics and regression analysis as used in economic analysis. The course will cover material similar to ECOM107 (ECMA02Y) but in somewhat less depth. Topics to be covered include: summary statistics, special probability distributions (normal, binomial), confidence intervals, hypothesis testing (parametric), and simple and multiple regression. There will be a number of computer assignments. Limited enrolment: 10 per section.


ECMB110H3 Quantitative Methods in Economics I

An introduction to probability and statistics as used in economic analysis. Topics to be covered include: descriptive statistics, probability, special probability distributions, sampling theory, confidence intervals. Enrolment is limited to students registered in programs requiring this course. Limited enrolment: 10 per section.


ECMB120H3 Quantitative Methods in Economics II

A second course in probability and statistics as used in economic analysis. Topics to be covered include: confidence intervals, hypothesis testing (parametric), simple and multiple regression. Enrolment is limited to students registered in programs requiring this course. Limited enrolment: 10 per section.


ECMB130H3 Applied Data Analysis

Development of the knowledge and skills necessary to analyze economic data. The course will focus on obtaining and analyzing economic data using alternative software packages such as SAS and EXCEL. An understanding of matrices and matrix operations will be developed. Students will further develop their understanding of several
ECM102H1 Topics in Price Theory
Continuing development of the principles of microeconomics. This course will build on the theory developed in EMB202H. Topics will be drawn from a list which includes risk and uncertainty, monopoly and oligopoly, game theory, general equilibrium, Pareto Optimality, externalitys.
Limited enrolment: 50 per section
Exclusions: (ECMB03), (ECMB04), (EC200), EC2006
Prerequisite: EMB202H

GGR207H3 Location and Spatial Development
Application of comparative location theory to explain economic landscapes. Topics include Ricardian 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.
Exclusion: GGR202
J. Miron

ECMB43H3 Public Decision Making
A study of decision-making by governments from an economic perspective. The course begins by examining various notions of public involvement in the economy and then examines a number of theories explaining the ways decisions are actually made in the public sector. The course concludes with a number of case studies of Canadian policy making. Two hours of lectures per week.
Limited enrolment: 60
Exclusion: ECOR155
Prerequisites: EMB402Y or ECMB402Y or ECMB402Y)

ECMB43H3 Economic Aspects of Public Policy
Cost-Benefit Analysis (CBA) is a key policy evaluation tool developed by economists to assist government policy makers and provide advice to governments. In this course, we learn the key assumptions behind and techniques used by CBA. You will learn how to criticize the shortcomings in the works of those who misuse Cost-Benefit Analysis techniques, and how to develop a model which minimizes the costs power and the limitations of CBA. We use the general analytical techniques covered in this course to examine specific policy areas, for example, the economics of education, the costs of work to GDP, and the effects of a $10 increase in the unemployment rate.
Limited enrolment: 60
Exclusion: ECOR155
Prerequisites: ECMB402Y or ECMB403Y (ECMB403Y or EC2006)

ECON202H1 Topics in Macroeconomics Theory
Continuing development of the principles of macroeconomics. This course will build on the theory developed in EMB202H. Topics will be drawn from a list including consumption trends, inflation, national accounting, national economic expectations, inflation, the Keynesian model, monetary and fiscal policy.
Limited enrolment: 50 per section
Exclusions: (ECMB03), (ECMB04), (EC2005), (EC2006), POL260
7.8.A

ECON203H1 Topics in Macroeconomics Theory
Continuing development of the principles of macroeconomic theory. The course will build on the theory developed in EMB202H. Topics will be drawn from a list including consumption trends, inflation, national accounting, national economic expectations, inflation, the Keynesian model, monetary and fiscal policy.
Limited enrolment: 50 per section
Exclusions: (ECMB03), (ECMB04), (EC2005), (EC2006), POL260
Prerequisite: ECMB402H

ECON209H1 Applied Regression Analysis
This course is an introduction to the estimation of econometric models using multiple regression and time series analysis. The course will focus on the application of econometric models to real-world problems, with an emphasis on model specification, estimation, and interpretation. The course will also cover the use of statistical software packages to perform econometric analyses.
Limited enrolment: 50 per section
Prerequisites: EMB202H1 and EMB202H2

ECON210H3 Empirical Applications of Regression Analysis
This course is an introduction to the estimation of econometric models using multiple regression and time series analysis. The course will focus on the application of econometric models to real-world problems, with an emphasis on model specification, estimation, and interpretation. The course will also cover the use of statistical software packages to perform econometric analyses.
Limited enrolment: 50 per section
Prerequisites: EMB202H1 and EMB202H2

ECON211H3 Empirical Applications of Regression Analysis
This course is an introduction to the estimation of econometric models using multiple regression and time series analysis. The course will focus on the application of econometric models to real-world problems, with an emphasis on model specification, estimation, and interpretation. The course will also cover the use of statistical software packages to perform econometric analyses.
Limited enrolment: 50 per section
Prerequisites: EMB202H1 and EMB202H2

ECON212H3 Economics of the Public Sector: Expenditures
A study of resource allocation in relation to the public sector, with a focus on the location criteria for public expenditures. The distinction between public and private goods is central to the course. Two hours of lecture per week and a one hour tutorial per week.
Limited enrolment: 60
Exclusion: ECOR301 (EC2003) or (EC2004)
Prerequisite: EMB202H1 or EMB202H2 (or EMB203Y or (EC2004)

ECON213H3 Economics of Health Care
A study of the economic principles underlying health care and insurance. This course is a survey of some of the major topics in health economics and an introduction to the ongoing debate over health care policy. The course will address both the public and private components of health care. Some of the topics that will be covered will include the economic determinants of health, the market for medical care, the market for health insurance, health and safety regulation as well as workers compensation systems, the role of the government in health care, and health care reform.
Limited enrolment: 60
Prerequisite: EMB202H2

ECON214H3 Economics of Organization and Management
This course covers economics of the internal organization of the firm. The emphasis will be on the economic relationships between the various parties involved in running a business, managers, workers, owners, and the government.
Limited enrolment: 50
Prerequisite: EMB203Y or EMB204Y (EC2003 or EC2004)

ECON313H3 Economics of the Public Sector: Taxation
A course concerned with the revenue side of government finance. In particular, the course deals with existing tax structures, in Canada and elsewhere, and with criteria for tax design.
Two hours of lecture per week and a one hour tutorial per week.
Limited enrolment: 60
Exclusions: EC2002, EC2003
Prerequisites: EMB202H1 or EMB202H2 (or EMB203Y or (EC2004)

ECON314H3 Industrial Organization
This course covers economics of the firm in a market environment. The aim is to study business behaviour and market performance as influenced by concentration, entry barriers, product differentiation, diversification, research and development and international trade. The course will be limited on the basis of a minimum of 30 students.
Two hours of lecture per week.
Limited enrolment: 60
Exclusion: EC2001 (EC2002)
Prerequisite: EMB203Y or EMB204Y (EC2003 or EC2004)
ECON513H1S Labour Economics I
Applications of the tools of microeconomics to various labour market issues. The topics covered will include: fertility and family formation; marital dissolution; the economic consequences of divorce; the effects of wages and the labour market; unemployment. Policy applications will include income maintenance programs; minimum wages; unemployment insurance benefits; poverty.
Two hours of lecture per week.
Limited enrolment: 50
Exclusions: ECOC329, ECOC339 (ECOC321).
Prerequisite: ECOM301H1S or ECOM402H1S.

ECON522H1S Labour Economics II
A continuation of ECON515. Topics covered will include: unions; wage structures; sex and race discrimination; human capital theory; investment in education. Policy issues discussed will include: pay equity; affirmative action; training initiatives; migration.
Two hours of lecture per week.
Limited enrolment: 60
Exclusions: ECOM322H1S and ECOM339H1S.
Prerequisites: ECOM315H1S (ECOC101H1S or ECOM102H1S) and ECOM322H1S (ECOM402H1S or ECOM406H1S).

ECON529H3S Business Negotiation
An introduction to the theory and practice of negotiation in business. Almost all business relationships (for example, relationships among managers and relationships with suppliers and customers) require negotiations. This course provides students with a set of approaches and tactics to use in different formats of negotiations, and an introduction to traditional and emerging processes for resolving disputes if negotiations break down. To gain practical experience, students will participate in exercises which simulate negotiations.
Limited enrolment: 60
Exclusions: ECOM315H1S or ECOM406H1S.
Prerequisite: ECOM401H1S or ECOM501H1S.

ECON533H1S Introduction to Industrial Relations
An overview of the industrial system and process in Canada. The course will introduce students to: industrial relations theory, the role of unions and management, employment law, labour law, the impact of collective bargaining on the workplace, and the firm, strikes and lockouts, grievance arbitration, collective bargaining in the public sector, occupational health and safety and workers' compensation, and the history of the Canadian industrial relations systems. Students will participate in collective bargaining simulations.
Two hours of lecture per week.
Limited enrolment: 60
Exclusions: ECOC324, ECOC369H1S.
Prerequisite: ECOM301H1S or ECOM302H1S.

ECON537H4S Development Policy
A consideration of how government policy can affect the pace and nature of development in Third World countries. Emphasis will be on the economic factors relating to rural organization, agricultural goods markets, labor markets, capital markets, land rights systems, income flows from technological change.
Limited enrolment: 60
Exclusions: ECOC324, ECOC369H1S.
Prerequisite: ECOM301H1S (ECOM606H1S).

ECON540H3S Topics in North American Economic Development
A study of the history of economic development in North America. Students will survey current theoretical approaches in economic history, study particular topics in North American economic history, and develop hands-on practice in data collection and analysis.
Limited enrolment: 60 per section
Exclusions: ECOM311H1S or ECOM402H1S or ECOM502H1S.

ECON541H3S Supervised Reading
For upper-level students whose interests are not covered in one of the other courses normally offered. Students are expected to design the course with the guidance of a staff member interested in the area of study being proposed. The courses will normally be made available only to students whose performance in Economics courses has been well above average. Such interests in supervised reading courses are encouraged to contact faculty members before registration. Such courses will normally 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.

COURSES NOT OFFERED 2000/2003
ECOM586H1S Comparative Economic Systems
Exclusions: ECOM313, ECOM323, ECOM402H1S, ECOM406H1S.
Corequisites: ECOM311H1S or ECOM402H1S.

ECOM513H3S Advanced Microeconomic Theory
Exclusions: ECOM326, ECOM328H1S.
Prerequisites: ECOM12H1S, ECON320H1S.
Discipline Representative: R. Brown (416-287-7166)
Supervisor of Students: A. Patnail (416-287-7159)

The discipline of English involves not only study of the great works of literature but also training in complex modes of interpretation and communication that are invaluable in our increasingly media-saturated world. At Scarborough, the curriculum offers courses in the English-language literatures of Britain, Canada, America, and other areas of the world. All courses place emphasis on close responsive reading, critical thinking, and clarity of expression.

A-level courses introduce students to the study of English at the university level. ENG1A1Y is designed both for students planning a Specialist, Major, or Minor in Program in English and for students having a general interest in literature or the twentieth century. ENG1A2H is available for those students enrolled in ENG1A1Y who want training in writing essays for English courses. It is required by all programs in English. ENG1B0H and ENG1B0H are required for all students planning a Specialist or Major Program in English. Other B-level courses have no prerequisites and are available both to beginning and to more advanced students. C-level courses, as their prerequisites indicate, are designed to build upon previous work and presuppose some background in critical skills and some familiarity with the subject matter. D-level courses provide opportunities for more sophisticated study and require some independent work on the part of the student. These courses are generally required for advanced treatment and may involve the presentation of seminars.

To be eligible to check the prerequisites for C- and D-level courses when placing in an individual Program, and to consult with the Supervisor of Studies on the selection of appropriate programs of study.

SPECIALIST PROGRAM IN ENGLISH
Tens and a half full-course equivalents in English are required. They should be selected as follows:

1. ENG1A1Y Introduction to Literary Study: The Twentieth Century
2. ENGA12H Writing Workshop for ENG1A1Y (Students who have successfully completed ENG1A1Y prior to Winter 1999 must register in ENGA12H to fulfill requirements for a Specialist Program in English.)
3. ENGS03H Critical Thinking About Narrative
4. ENGS04H Critical Thinking About Poetry
5. Three full-course equivalents from courses whose content is pre-1900:
   - ENGB10Y Shakespeare
   - ENGS02Y Victorian
   - ENGS03Y Renaissance
   - ENGS07Y Eighteenth Century
   - ENGS08Y Rise of the Novel
   - ENGS02Y Victorian
   - ENGS02Y Victorian
   - ENGS02Y Victorian
   - ENGS02Y Victorian

6. At least 5 full-course equivalents must be at the C-level.
7. Majors can count NO MORE than ONE of ENG585H, Children's Literature; ENG585H, Detective Fiction; and ENG584H, Science Fiction towards their program requirements.
8. The total number of English courses should equal 10 credit full-course equivalents.

MAJOR PROGRAM IN ENGLISH
Supervisor: A. Patnail (416-287-7159)
Seven full-course equivalents in English are required. They should be selected as follows:

1. ENG1A1Y Introduction to Literary Study: The Twentieth Century
2. ENGA12H Writing Workshop for ENG1A1Y (Students who have successfully completed ENG1A1Y prior to Winter 1999 must register in ENGA12H to fulfill requirements for a Major Program in English.)
3. ENGS03H Critical Thinking About Narrative
4. ENGS04H Critical Thinking About Poetry
5. Two full-course equivalents from courses whose content is pre-1900:
   - ENGB10Y Shakespeare
   - ENGS02Y Victorian
   - ENGS02Y Victorian
   - ENGS02Y Victorian

ENGC37Y Eighteenth Century
ENGC23Y Rise of the Novel
ENGC27Y Renaissance

Additional full-course equivalents, at least 1 of which must be at the C-level, to bring the total number of English courses successfully completed to four full-course equivalents.

NOTE: For Co-op opportunities related to the English and Major Programs in English, please see the Calendar entry for the Humanities Co-operative Program, page 108.

ENGA11Y Introduction to Literary Study: The Twentieth Century
An introduction to literary and cultural concerns in the twentieth century through the study of works written in English from the beginning of the century to the present day. As an introduction to university-level critical reading and interpretation, this course will analyze the writing of twentieth-century men and women from a range of backgrounds and nationalities. As well as looking closely at selected works from the last 100 years, we will consider the impact that the experience of individuals and writers has into larger movements or make up an era; how does the literature of the last century both reflect and help us come to terms with the complex realities of our world? what is the relationship
between what we read and how we make sense of ourselves and others? Marks will be based on in-class writing assignments, quizzes and exams. Students wishing to supplement this course with training in university-level essay-writing for English courses and all students planning to continue the study of English should take ENG112H while they are enrolled in ENG111Y.

Exclusion: ENG140
G. Leonard/ R. Brown/T.B.A.

ENG112H Writing Workshop for ENG111Y
An adjunct to ENG111Y, providing intensive training in critical writing for English courses. This course is designed to develop the essay-writing skills required for the study of English literature at the university level, which will be made up of group work and written assignments and strategies of argumentation, to questions of appropriate tone and voice, to research techniques, and to proper bibliographic style. As well as providing a general consideration of essay writing appropriate for introductory English studies, the course will also devote some time to special kinds of writing, such as abstracts and writing in time-controlled situations. Assignments will be coordinated with the current ENG111Y and will reflect writers and topics studied there.

NOTE: ENG112H is required for all English programs.
Exclusion: ENG100H
Co-requisite: ENG111Y
Course Coordinator: G. Leonard (416-287-7141)

ENG11900 Critical Thinking About America An introduction to the literary analysis of literature and the critical writing.

This course will study closely a small number of stories and novels from different periods in order to develop the critical skills to analyse narrative. We will look at both the variety of narrative modes and the variety of approaches to understanding them.

This course is required for Major and Specialist in English.
Exclusion: ENG107Y, ENG267H
PreCo-requisites: ENG111Y & ENG112H

ENG11940 Critical Thinking About Poetry An introduction to the literary analysis of poetry and to critical writing.

This course will study closely a small number of poems from different periods in order to develop the critical skills to analyse

poetry. We will look at both the variety of poetic forms and the variety of approaches to understanding them.

This course is required for Major and Specialist in English.
Exclusion: ENG107Y, ENG267H
PreCo-requisites: ENG111Y & ENG112H
T.B.A.

ENG11973 Canadian Literature in English An Introduction
An introductory survey of English-Canadian fiction, drama, poetry, and criticism. This study of Canadian literature in English examines a wide selection of Canadian writing from early times to the present but focuses on twentieth-century writing by such writers as Laurence, Davies, Arrowsmith, Cohen, O'Driscoll, and Findlay. Close and critical reading of individual works will be balanced against large questions of the shaping influences of Canadian culture and nationalism.

Exclusion: ENG252
T.B.A.

ENG11975 American Literature: An Introduction
A broad survey of literature in the United States. Examining the many different cultural points of view operating within the framework of the American experience, this course will explore such questions as: What is the make-up and significance of the American Dream? What is the nature of success? How are such human dilemmas as greed, envy, and racism versus redemption, presented and interpreted in an American context? In studying the literature, we will include cultural and historical background material as well as literary texts by such writers as Hawthorne, Dickinson, Melville, Twain, Hemingway, Faulkner, Wright, Morrison, and Bellow.

Exclusion: ENG250
T.B.A.

ENG11973 Shakespeare A study of at least eleven plays by Shakespeare, both as unique works of art and in the larger context of its work as a Renaissance dramatist. A list of texts will be announced in class. 

Exclusion: ENG220
A. Fussel

ENG11973 A Survey of Drama A study of drama as literature from ancient Greece to the present day. This course introduces students to a wide range of drama through the study of at least eleven plays, including Sophocles and

Sophocles, Marlowe, Shakespeare, and Moliere, Ibsen, Chekhov, and Brecht. 

This is a course required for Majors and Specialists in English.

Exclusion: ENG207Y, ENG267H
PRECO-Requisites: ENG111Y & ENG112H
T.B.A.

ENG11910 Contemporary Literature from Africa A study of fiction, drama, and poetry from English-speaking Africa.

Much of the finest writing in English today is by writers who live in or who come from parts of the world other than Britain or North America. Nobel-Prize winners Wole Soyinka and Nadine Gordimer are just two of the many fine writers to come from Africa, where there is a flourishing literature. A major concern of the course will be the relation of English-language writing in Africa to indigenous languages, to identity, and to audience. We will also focus on the issues of creating art in a world of suffering, the political relevance of imaginative literature, and the process of de-colonizing the narrative of history. Writers to be considered will include novelists such as Achebe, Soyinka, Mampeta, Coetzee, Dangarembga, and Gordimer, poets such as Ngugi, Njoku, and Ikomi; and playwrights such as Soyinka and Fagun. 

We will begin their works in their historical, political, and cultural contexts.

K. ten Korven

ENG12920 The Canadian Short Story A study of the Canadian short story, a form that has been vital to the Canadian literary tradition and has produced such writers of international stature as Munro, Atwood, Lawrence, and Galloway.

Exclusion: ENG215
T.B.A.

ENG12930 Children's Literature An introduction to children's literature.

This course will survey literature from the nineteenth century to the present written for children and in terms of such topics as literature, creativity, moral training, behaviour, and nationalism. 

Topics that become altered as different generations read "classic" texts and as different critical approaches reinterpret children's literature.

Exclusion: ENG224
T.B.A.

ENG14110 Science Fiction An examination of the genre of science fiction. 

This course will look at novels as well as short stories, selections from long texts and films, and the beginnings of science fiction to cyberpunk. Emphasis will be placed on the way a formalistic popular genre comes into being, the relationships of that genre to its milieu, the way that innovation is introduced into an established form, and the interactions that exist between science fiction and literary writing.

Exclusion: ENG257H
T.B.A.

ENG1900 Women and Literary Study A discussion of the work of women writers, and the history of women as students, teachers and writers of literature.

Through a variety of texts (novels, poetry, drama, essays), we will explore a rich tradition of women writers from the seventeenth century to the present day. We will examine the ways in which gender has played a role in literary production, publication history, reception, and canon making. Readings will be taken from the work of such writers as Asafo, the Bronde, Chapel, Morrison, Mcree, M. Shelley, Tan, Roth, A. Macdonald, E.B. Browning, Flinn, C. Rosetti, Rich, Wolfe, and Woollf.

Exclusion: ENG233
T.B.A.

ENG1900 Creative Writing An introduction to the writing of poetry and short fiction.

This course will provide students with the experience of writing, discussing and revising their own work in a group workshop as well as in the context of reading from the perspective of a writer rather than a critic. Assignments will be based on special questions of technique and form. 

A short sample of creative writing, usually submitted by August 15th, will be part of your evaluation.

Limited enrollment: 16
Exclusion: ENG200Y
G. Leonard

ENG12923 The Renaissance Poetry, prose, and drama of the English Renaissance, from 1500-1660.

We will examine literary writing within the context of such topics as sixteenth-century humanism, the courtly love tradition, and the relationship of the individual to the state.

Exclusion: ENG102
Pre-Requisites: ENG100Y or [ENG103H & ENG104H]
A. Paterson
ENGC63Y3 Literature and Media
An examination of the relationship between literature and media.
Although we tend to think of literature in terms of the printed book, print is not literature's only medium. Initially formed and shaped by oral and general communication, literary works quickly began to be presented in visual media. From the constraints and conventions of the page to the page shape and the page layout, visual and auditory communication, literature has been shaped and reshaped by its media. We will consider such topics as the way in which visual and commercial presentation have shaped the nature of literary work: the influence on literary representation of writing and print, literature's relationship to the visual image, and the effect of new forms of mechanical and electronic media on literary expression. We will look at such questions as whether a literary work can be separated from the medium in which it first appeared; what happens when a work is recast in another medium; what constraints do media place on literary expression and whether those constraints are inherent in a particular medium; and whether literature can shape its media conventions. We will look at such texts as The Odyssey, The Aeneid, and Dante's Inferno. We will assess the textual and visual representation of classical texts and their role in the aesthetic experience of the modern reader.
Compositions: ENGB01Y or [ENGB03H & ENGB04H]
C. Reiko Reichert

ENGC71Y3 The Immigrant Experience in Literature
An examination of the creative literature written from or about the experience of immigrants.
We will compare the literatures produced by several ethnic communities in at least three nations - Canada, the United States, and Great Britain - in order to examine the nature of diasporic identity, national identity, and the creation and expression of ethnicity. We will consider the themes of community, crisis, integration, preservation, and representation, and the relationships of individual and community and of community and larger society. We will also consider the spatial location of ethnicity in the larger social order (such as that of black and white or between indigenous peoples and settlers) already characterizing these societies. We will consider voices such as those of Conrad, Wierse, Ricci, Coppola, Ford, Sjörens, Richer, and others in Hong Kong, China, Japan, and Korea. We will also consider the influence of ethnicity in the larger social order (such as in the life of black and white or between indigenous peoples and settlers) already characterizing these societies. We will consider voices such as those of Conrad, Wierse, Ricci, Coppola, Ford, Sjörens, Richer, and others in Hong Kong, China, Japan, and Korea. We will also consider the influence of ethnicity in the larger social order (such as in the life of black and white or between indigenous peoples and settlers) already characterizing these societies. We will consider voices such as those of Conrad, Wierse, Ricci, Coppola, Ford, Sjörens, Richer, and others in Hong Kong, China, Japan, and Korea. We will also consider the influence of ethnicity in the larger social order (such as in the life of black and white or between indigenous peoples and settlers) already characterizing these societies. We will consider voices such as those of Conrad, Wierse, Ricci, Coppola, Ford, Sjörens, Richer, and others in Hong Kong, China, Japan, and Korea.
ENOD01X3 Alice Munro
A study of the short fiction of Alice Munro. This course will focus on Munro’s short stories and the shape of her collections. Students will work individually on specific short stories and in groups on presentations dealing with Munro’s work in a variety of contexts. The course will conclude with a written term project.

Limited enrollment: 24
Prerequisites: ENGB01Y or ENGB02H & ENGB04H and one other ENG course at the B- or C-level
D. Bournet

ENOD02X3 Power and Perception: Imperialism, Colonialism, and Identity in 20th-century Fiction
An exploration of multicultural perspectives on issues of power, perception, and identity as revealed in literary depictions of imperialism and colonialism in 20th-century fiction.

Solutions will be deliberately varied both in terms of culture and nationality in order to explore varying and contradictory depictions of structures of power, cultural assumptions, and myths about identity in such diverse writers as Rudyard Kipling, H. Rider Haggard, E.M. Forster, 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 inherent conditions of the human condition.

Limited enrollment: 24
Prerequisites: ENGB01Y or [ENGB02H & ENGB04H] and one other ENG course at the B- or C-level
G. Leonard

ENOD03X3 The Image of Home in North American Fiction
As an investigation of home as organizing concept and thematic symbol in selected texts by Canadian and American writers. This course will consider how focusing on home (one of the universal concepts around which narratives get organized) influences the way we read, and what happens when we read such symbols within the context of culture and of genre. This course will also explore the impact of immigrant dislocation and assimilation on fictional representations of home.

Limited enrollment: 24
Prerequisites: ENGB01Y or [ENGB02H & ENGB04H] and one other ENG course at the B- or C-level
M. Goldman

COURSES NOT OFFERED 2002/2003
ENGB05X3 What is Culture?
ENGB11X3 Twentieth-Century Drama
ENGB17X3 Contemporary Literature from the Caribbean
ENGB19X3 Contemporary Literature from South Asia
ENGB34X3 The Short Story
ENGB35X3 Detective Fiction
ENGB42X3 The Bible and English Literature
ENGB44X3 Native North American Literature
ENGB47X3 Canadian Fiction in English
ENGB49X3 American Authors
ENGB51X3 Victorian
ENGB59X3 From the Renaissance to the Eighteenth Century
ENGB60X3 The West in American Literature
ENGB52X3 Myth and History in Canadian Literature
ENGB53X3 Literature and Travel

Environmental Science (B.Sc.)
Faculty List
J.A. Westgate, B.Sc. (Reading), Ph.D. (Albany), Professor Emeritus
R.B. Bryant, B.A. (DOtto), Ph.D. (Sheffield), Professor
N. Eyles, B.Sc. (Leicester), M.Sc. (Memorial University Nfld), Ph.D. (Beech Anglia), D.Sc. (Leicester), Professor
B. Greenwood, B.Sc., Ph.D. (Bristol), Ph.D. (Lona, Cova (Eupals), Professor
K.W.P. Howard, B.Sc., Ph.D. (Birmingham), Professor

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V. Timmer, B.Sc.F., M.Sc.F., (University of New Brunswick), Ph.D. (Cornell), Professor
D.D. Williams, B.Sc. (University College, North Wales), Dip. Ed. (Liverpool), M.Sc., Ph.D. (Wattenso, D.5.4. (Warles), Professor
R.R. Parnes, B.Sc., M.Sc., (Toronto), Ph.D. (Carleton Associate Professor
A.G. Price, B.Sc., M.Sc., Ph.D. (McGill), Associate Professor
K.D. Price, B.Sc., M.Sc., Ph.D. (McGill), Associate Professor
A. Mohamed, M.Sc., Ph.D. (Florida State), Ph.D., Adjunct Associate Professor
M.I. Sallman, B.Sc., Ph.D. (Alabama) Assistant Professor

Discipline Representative: N. Eyles (416-287-7231)

Human activity is a major cause of environmental change and the rate of that change has accelerated dramatically over the last century. Study of the dynamics of both natural and anthropogenic changes requires knowledge spanning many scientific disciplines. Recent environmental degradation such as surface and subsurface water pollution, air and soil pollution, climate change, depletion of resources, extinction of species and problems of waste disposal are all a result of the lack of understanding of environmental systems and processes. Environmental degradation has an impact not only on human beings but on all species and natural systems, so that its understanding requires comprehensive skills from many areas such as biology, chemistry, geology, geography, mathematics, physics, and ecology.

A Specialist Program with three streams: a Major Program, a Minor Program and, in addition, a Co-op Specialist Program are all available within Environmental Science. The three special streams are Environmental Geoscience, Environmental Biology and Environmental Chemistry. The streams of the Major Program are designed for students who wish to pursue another Major or Specialist Program in a related discipline. All streams have a common core in the first two years; this reflects the strong interdisciplinary requirements of an integrated approach to the study of the environment and allows students to switch between streams if they wish.

The overall purpose of the various programs in Environmental Science is to provide education and training which will
produce highly qualified scientists with excellent field and laboratory experience, with a view to future employment in consulting, government, non-governmental organizations and research and teaching.

All streams of the Specialist (Environmental Science, Environmental Biology, Environmental Chemistry) and the Major (Environmental Science, Environmental Biology, Water Science), Programs are eligible for inclusion in the Co-operative Program in Physical Sciences and the Early Teacher Project in Physical Sciences. Please refer to the Physical Sciences (page 162) and Co-operative Program (page 65) sections of this Calendar for further details.

**SPECIALIST (CO-OP) PROGRAM IN ENVIRONMENTAL SCIENCE**

**Supervisor of Studies:** W.A. Gough (416-287-7245)

**Co-op Co-ordinator:** R. Loudon (416-287-7254)

As of 2009/2010, the Environmental Science Co-op Program will become part of the Physical Sciences Co-op Program (see page 164).

The Co-operative Program allows students to take any one of three specialist streams in Environmental Science. Each of these streams has a strong basis in the fundamental sciences such as biology, chemistry and physics, but emphasizes the environmental sciences such as geography, geology, atmospheric sciences, and ecology. The Program is broadly based for the practicing environmental scientist and including study in the areas of: Environmental Law; Environmental Impact Assessment; Remote Sensing and Geographical Information Systems; Scientific Computing; Statistics.

One of the thrusts of the Co-operative Program is the importance of field and laboratory work, which allows students who are interested to develop skills which are directly useful in the work place.

For information on admission, fees, work term and standing in the Program, please see the Calendar section Co-operative Programs: General Information, page 65.

**Work Terms**

Students who enter the Program in 2001/2002 or later must complete the work terms along with the academic program. Students who entered before 2001/2002, must complete two work terms, with an optional third work term with permission of the Co-ordinator. Students must complete the Introduction to Environmental Science Co-op Tutorial before going on their first work term. Students are not permitted to complete more than one summer work term.

**Course Requirements**

For Program outlines, please refer to the description of the Specialist Program in Environmental Science below. Note that while it is strongly encouraged, 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.

**NOTE:** Each student's program requires the annual approval of the supervisor of studies. Students are individually responsible for ensuring that they have completed all Program and degree requirements for graduation.

**SPECIALIST PROGRAM IN ENVIRONMENTAL SCIENCE**

**Supervisor of Studies:** W. Gough (416-287-7245)

This Program has a firm base in the traditional environmental disciplines, that is, the earth, atmospheric and ecological sciences, but is built on an excellent grounding in the fundamental sciences of biology, chemistry, mathematics and physics. The acquisition of practical skills through extensive field and laboratory experience is emphasized. The Program is designed in nature with a common core extending through all years of each of the three specialist streams: Environmental Geoscience, Environmental Biology and Environmental Chemistry.

A list of suggestions for elective courses can be obtained from the Supervisor of Studies.

**Environmental Geoscience Stream**

Adviser: W. Gough (416-287-7245)

Total requirements: 14.5 F.C.E.

**Year 1:**

- **EESA40H1** Introduction to Environmental Science
- **EESA46H1** Introduction to Plan Earth
- **BGA40Y1** General and Introductory Organic Chemistry
- **PHYS10H1** The Physics of Classical Systems
- **MAT232Y1** Calculus
- **MAT292Y1** Introduction to Mathematical Modeling

**Year 2:**

- **EESA60H1** Ecology
- **EESA67H1** Introduction to Scientific Computing
- **STAB2H1** Statistics
- **CHMB35H1** Environmental Chemistry
- **EESA62H1** Principles of Geomorphology
- **EESA63H1** Principles of Climatology
- **EESA64H1** Principles of Hydrology
- **EESA65H1** Principles of Soil Science
- **EESA68H1** Earth History

**Year 3:**

- **EESA61H1** Remote Sensing and Geographic Information Systems
- **EESA64H1** Biodiversity and Biogeography
- **EESA67H1** Groundwater
- **EESA63H1** Environmental Impact Assessment and Auditing
- **EESA65H1** Research Seminar
- **EESA68H1** Glacial Sedimentology and Stratigraphy

and 0.5 F.C.E.'s from the following:

- **EESA65H1** Marine Systems
- **EESA61H1** The Great Lakes

**Year 4:**

1.0 F.C.E. from the following:

- **EESA61H1** Urban Environmental Problems of the Greater Toronto Area
- **EESA66H1** Contaminant Hydrogeology
- **EESA67H1** Climate Change Impact Assessment
- **EESA69H1** Research Project in Environmental Science
- **EESA68H1** Process Hydrogeology
- **EESA65H1** Microbial Biogeochemistry

and 1.0 F.C.E. from any other EES courses strongly recommended: EESA66Y1, EESS67H1 or EESS68H1

**Total requirements: 14.5 F.C.E.**

**Environmental Biology Stream**

Adviser: D.D. Williams (416-287-7243)

Total requirements: 14.5 F.C.E.

**Year 1:**

- **EESA40H1** Introduction to Environmental Science
- **EESA46H1** Introduction to Plan Earth
- **EESA41H1** Introduction to Life Science
- **EESA43H1** Introduction to Organismal Biology
- **CHMA40Y1** General and Introductory Organic Chemistry
- **MAT292Y1** Introduction to Mathematical Modeling
- **MAT232Y1** Calculus
- **PHYS10H1** The Physics of Classical Systems

**Year 2:**

- **EESA60H1** Ecology
- **EESA67H1** Introduction to Scientific Computing
- **STAB2H1** Statistics
- **CHMB35H1** Environmental Chemistry
- **EESA62H1** Principles of Geomorphology
- **EESA63H1** Principles of Climatology
- **EESA64H1** Principles of Hydrology
- **EESA65H1** Principles of Soil Science
- **EESA68H1** Earth History

or

- **SCSA40H1** Introduction to Computer Science

and 1.0 F.C.E. from the following:

- **EESA60H1** Principles of Climatology
- **EESA64H1** Principles of Hydrology
- **EESA65H1** Principles of Soil Science
- **CHMB35H1** Environmental Chemistry

**Year 3:**

- **EESA61H1** Remote Sensing and Geographic Information Systems
- **EESA64H1** Biodiversity and Biogeography
- **EESA65H1** Research Seminar
- **EESA68H1** Glacial Sedimentology and Stratigraphy

**Year 4:**

1.0 F.C.E. from the following:

- **EESA66H1** Contaminant Hydrogeology
- **EESA67H1** Climate Change Impact Assessment
- **EESA69H1** Research Project in Environmental Science
- **EESA68H1** Process Hydrogeology
- **EESA65H1** Microbial Biogeochemistry

and 1.0 F.C.E. from any other EES courses strongly recommended: EESA66Y1, EESS67H1 or EESS68H1

**Total requirements: 14.5 F.C.E.**

**Environmental Chemistry Stream**

Adviser: D.D. Williams (416-287-7243)

Total requirements: 14.5 F.C.E.

**Year 1:**

- **EESA40H1** Introduction to Environmental Science
- **EESA46H1** Introduction to Plan Earth
- **EESA41H1** Introduction to Life Science
- **EESA43H1** Introduction to Organismal Biology
- **CHMA40Y1** General and Introductory Organic Chemistry
- **MAT292Y1** Introduction to Mathematical Modeling
- **MAT232Y1** Calculus
- **PHYS10H1** The Physics of Classical Systems

**Year 2:**

- **EESA60H1** Ecology
- **EESA67H1** Introduction to Scientific Computing
- **STAB2H1** Statistics
- **CHMB35H1** Environmental Chemistry
- **EESA62H1** Principles of Geomorphology
- **EESA63H1** Principles of Climatology
- **EESA64H1** Principles of Hydrology
- **EESA65H1** Principles of Soil Science
- **EESA68H1** Earth History

or

- **SCSA40H1** Introduction to Computer Science

and 1.0 F.C.E. from the following:

- **EESA60H1** Principles of Climatology
- **EESA64H1** Principles of Hydrology
- **EESA65H1** Principles of Soil Science
- **CHMB35H1** Environmental Chemistry

**Year 3:**

- **EESA61H1** Remote Sensing and Geographic Information Systems
- **EESA64H1** Biodiversity and Biogeography
- **EESA65H1** Research Seminar
- **EESA68H1** Glacial Sedimentology and Stratigraphy

**Year 4:**

1.0 F.C.E. from the following:

- **EESA66H1** Contaminant Hydrogeology
- **EESA67H1** Climate Change Impact Assessment
- **EESA69H1** Research Project in Environmental Science
- **EESA68H1** Process Hydrogeology
- **EESA65H1** Microbial Biogeochemistry

and 1.0 F.C.E. from any other EES courses strongly recommended: EESA66Y1, EESS67H1 or EESS68H1

**Total requirements: 14.5 F.C.E.**

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**Environmental Biology**

- **EESA60H1** Introduction to Environmental Science
- **EESA67H1** Introduction to Plan Earth
- **EESA66H1** Introduction to Life Science
- **EESA65H1** Principles of Soil Science
- **EESA68H1** Earth History

**Environmental Chemistry**

- **EESA63H1** Principles of Climatology
The Major Program is designed to provide an excellent background in the basic principles of Environmental Science and its applications to current environmental issues. It is intended for students with an interest in environmental issues who do not wish to specialize in the field. It is appropriate for students pursuing a three-year degree or those pursuing a four-year degree with more than one area of specialization (e.g., Biology, Chemistry, Physics, International Development Studies, and Society and Environment). The program is offered in three streams: General Environmental Science, Environmental Biology and Water Science.

General Environmental Science Stream
Advisor: A.G. Price (416-287-7377)
Total requirements: 7.0 F.C.E.

Year 1:
- **EESC01H** Introduction to Environmental Science
- **EESC06H** Introduction to Planet Earth
- **BGYA01Y** Introductory Biology

Year 2:
- **EESC02H** Principles of Geology
- **EESC03H** Principles of Soil Science
- **EESC05H** Earth History

Year 3:
- **EESC04H** Principles of Geomorphology
- **EESC08H** Principles of Hydrology
- **EESC09H** Principles of Geology

Year 4:
- **EESC05H** Principles of Geomorphology
- **EESC08H** Principles of Hydrology
- **EESC09H** Principles of Geology

Environmental Biology Stream
Advisor: R. Philip (416-287-7223)
Total requirements: 7.0 F.C.E.

Year 1:
- **EESC01H** Introduction to Environmental Science
- **EESC06H** Introduction to Planet Earth
- **BGYA01Y** Introductory Biology

Year 2:
- **BGYB01H** Ecology
- **BGYB03H** Evolutionary Biology
- **BGYB04H** Principles of Hydrology

Year 3:
- **BGYB05H** Ecology
- **BGYB07H** Principles of Climatology
- **BGYB09H** Principles of Soil Science

Minor Program in Environmental Science
Advisor: A.G. Price (416-287-7377)
Total requirements: 4.0 F.C.E.

The Minor Program is designed to provide insights into the basic principles of Environmental Science and its applications to current environmental issues. It is intended for students with an interest in environmental issues but who do not have the necessary background for specialization in the field. It is appropriate for students pursuing a three-year degree in science or those pursuing a four-year degree in the social sciences or in management and economics.

Year 1:
- **EESC01H** Introduction to Environmental Science
- **EESC06H** Introduction to Planet Earth

Year 2:
- **EESC02H** Principles of Geology
- **EESC05H** Principles of Geomorphology
- **EESC08H** Principles of Soil Science

Year 3:
- **EESC04H** Principles of Geomorphology
- **EESC08H** Principles of Hydrology
- **EESC09H** Principles of Geology

Year 4:
- **EESC05H** Principles of Geomorphology
- **EESC08H** Principles of Hydrology
- **EESC09H** Principles of Geology

Water Science Stream
Advisor: W. Dough (416-287-7245)
Total requirements: 8.0 F.C.E.

Year 1:
- **EESC01H** Introduction to Environmental Science
- **EESC06H** Introduction to Planet Earth
- **BGYA01Y** Introductory Biology

Year 2:
- **EESC02H** Water Science
- **EESC05H** Principles of Geomorphology
- **EESC08H** Principles of Hydrology

Year 3:
- **EESC04H** Principles of Geomorphology
- **EESC08H** Principles of Hydrology
- **EESC09H** Principles of Geology

Year 4:
- **EESC05H** Principles of Geomorphology
- **EESC08H** Principles of Hydrology
- **EESC09H** Principles of Geology

Environmental Science

Introduction to Environmental Science
An introduction to the physical and biological processes which underlie the ways in which ecosystems function, from local to global scales. The scientific method and its application in the investigation of natural systems. An examination of the ways in which human activity has modified the ways in which natural systems function.

Human History

Introduction to Human History
An introduction to the development of human society and culture, from early human ancestors to modern times. The course examines the major cultural, social, and political developments that have shaped human history.
and development and the role of changes in societal attitudes (paradigms) in determining the rates of human-induced environmental change. Particular emphasis on degradation of the atmosphere, soils, water and biological resources resulting from human activity; population growth, soil erosion, climate change, loss of biodiversity, renewable and non-renewable resource utilization; sustainability. Two hours lecture every week and a two hour practical every other week.

A.G. Price

EESAS063 Environmental Hazards
An investigation of the geological background and possible solutions to major hazards in the environment.

Environmental hazards to be studied include: landslides, erosion, earthquakes, volcanic eruptions, asteroidal impacts, flooding, glacierization, future climate change, subsidence, and the disposal of toxic wastes. Of interest to a wide range of students in the life, social, and physical sciences; an opportunity for the non-specialist to understand headline-making geological events of topical interest. No prior knowledge of the Earth Sciences is required. Two hours lecture per week. Exclusion: GCCO10 (GLAO10) Faculty.

EESAS064 Introduction to Planet Earth
The composition, structure and origin of the Earth and the physical and biological processes that operate on and in it; the history of the Earth as revealed in the rock record. The flows of energy and mass through natural systems and the impact of human activities on these systems, with particular reference to land use change, soil degradation and atmospheric pollution. Two hours lecture every week and a two hour practical every other week. Exclusion: (EESAS02), GSCAS03, GCOA05, GCOB05, GCOH02 (14), GCOH10, N.Elaus/A.G.Price

EESAS065 Water
A survey of the planet’s water resources and the major issues facing the use of water. Topics include: Earth, the watery planet; water, the last great resource; Canada’s waters; Ontario’s waters; water and man; water contamination, and protecting our waters. Case studies such as the Walkerton tragedy will be studied. No prior knowledge of Earth or water science is required. Three hour lecture per week.

T.B.A.

EESAS066 Principles of Geomorphology
The physical and chemical processes responsible for the development of the Earth’s surface and the mechanics of sedimentation, transport, and deposition of mass by rivers, wind, glaciers, water waves, gravitational processes, etc., which control the evolution of surface morphology. Field excursions and laboratory exercises will allow students to apply theory to natural systems and to understand the dynamics of one man-modified geomorphic system. Two hour lecture every week and a two hour practical every other week. Exclusion: (GCRB97), Prorequisite: EESAS066 (EESAS02H) (GCRB05)

B. Greenwood

EESAS067 Principles of Climatology
An overview of the physical and dynamic nature of meteorology, climatology and related aspects of oceanography.

Major topics include: atmospheric composition, nature of atmospheric radiation, atmospheric moisture and cloud development, atmospheric motion including air masses, front formation and upper air circulation, weather forecasting, ocean circulation, climate classification, climate change theory and global warming. Tutorials include the accessing and analysis of meteorological and climatological data through the Internet. Two hour lecture and two hour practical per week. Exclusion: GCRB03, GCRB312 (GCRB05) Prerequisites: EESAS066 (EESAS02H) (GCRB05) or an A-level science course with permission of the instructor.

W. Gough

EESAS068 Principles of Hydrology
The water and energy balances are covered as the basis for the measurement of the flows of water from the terrestrial part of the hydrologic cycle, and the measurement of the components of both balances is described.

Conventional or operational modeling of hydrologic processes and the application of these approaches in related fields. Emphasis is placed on the measurement and estimation of water fluxes at the drainage basin scale. Objectives include a better understanding of the physical and chemical processes through natural systems, the ways in which human activity changes hydrologic process, and the kinds of modeling used in their studies. Two hour lecture every week and a two hour practical every other week. Exclusion: (GCRB20), GCRB50, GCRB26. Prerequisite: EESAS014 or EESAS065 (EESAS02H) (GCRB05), EDSB03H, EESB02H (GCRB10), EDSB03H, EESB02H (GCRB03) A.G. Price

EESAS069 Principles of Soil Science
A study of the processes of pedogenesis and the development of diverse soil profiles, their field relationships and their response to changing environmental conditions.

An examination of the fundamental soil properties of importance in soil management. An introduction to the techniques of soil examination in the field, soil analysis in the laboratory and the basic principles of soil classification. Two hour lecture every week and a two hour practical every other week. Exclusion: (GCRB77), (GCRB35) Prerequisite: Any A-level course in Environmental Science or IDSBB02H

T.B.A.

EESAS070 Biotechnology - Environmental Implications
An examination of the environmental implications of the applications of recent advances in biotechnology. Fundamental biotechnological techniques are explained, followed by an examination of current applications and the potential ecological effects of these applications. Topics covered include bioremediation, bioconversion, the manufacture of biological control agents, and the genetic engineering of crop plants, fish and other organisms. A study of the impacts of agriculture, and wildlife forensics. Ecological concerns over the use of genetically engineered organisms will be examined, and the techniques used to monitor environmental effects will be discussed. Prerequisite: BGY001 (BIOA07) or (EED02) or Recommended Background: BGY1001

R. Fulthorpe

EESB150 Earth History
Planet Earth is at least 4.600 million years old and a direct geological record exists for at least the last 3.000 million years in the form of igneous, metamorphic and sedimentary rocks. The changing dynamics of sedimentation and deposition within the Earth’s mantle and associated super- continent assembly and breakup along with meteorite impacts, are now recognized as the major controls on development of the planet’s atmosphere, oceans, biology, climate and geochemical cycles. This course reviews this long history and the methods and techniques used by geologists to identify ancient environments. Particular emphasis will be given in class, in the laboratory and on field trips to the nature of the geological fossil record preserved here in Ontario and how they reflect global changes of the past several hundred years. Two hours lecture, field trips and two hour practical. Prerequisites: EESAS014, EESAS049 or permission of the instructor N. Dyles

EESCO03 Remote Sensing & Geographic Information Systems
Fundamentals of GIS and remote sensing: spatial data types, data capture, data input and output formats, geo-referencing and coordinate systems, topology, spatial analysis techniques, remotely sensed image analysis and map production. Application of GIS technology to "real-world" situations and both regional and global environmental problems using multiple datasets will be demonstrated. Extensive hands-on experience with GIS software (ArcView, Windows, Geos - Unix, Idrisi - DOS; others if time permits) and various hardware devices (e.g. digitizer, plotter, etc.)

Two hour lecture and two hour practical every week. Prerequisites: EESAS066 & I.S.P.C.E.’s in B. or C-level EES courses.

M. Dougall

EESCO05 Biodiversity and Biogeography
Theoretical and practical aspects of the diversity of animal and plant function, interaction and examination of the distribution patterns of representative taxa. To set the every student will be familiar with the diversity of animal life and how this is organized for scientific study. Much of the course will be concerned with vertebrate animals, as it is amongst their phylog that the vast majority of the structural and functional diversity of organisms lies. Information on important animal groups and their evolution will be set in the context of past and present global distribution patterns. Coverage will begin with an explanation of the evolution of diversity in a functional context. Subsequently there will include the major biomes (marine and terrestrial), continental drift, dispersal, endemism, concepts of abundance and rarity, comparison of the biocoenosis on different continents and islands, and the fundamental influence of climate. Important biological processes to be
studied will include adaptation, speciation, colonization, and extinction. The course will conclude with a discussion of the invasive role of mammals in shaping modern bio-geography. Two hour lecture and three hour practical per week.

Exclusion: BIO2C9
Prerequisites: EBOA01Y (BIOA02Y) or EBOA06H & any 0.5 P.C.E. B. or C-level Biology or Environmental Science course.
D.D. Williams

EES207H3 Groundwater
Groundwater represents the world’s largest and most important fresh water resource. This basic course in hydrogeology introduces the principles of groundwater flow and aquifer storage and shows how knowledge of these fundamental tools is essential for effective groundwater resource management and protection. Special emphasis is placed on the practical methods of resource exploration and assessment; examples of the approach are given for aquifers under environmental stress in southern Ontario, the US and Africa. Four hour lecture per week.

Prerequisites: EBOA06H and 1 P.C.E. in B-level EES courses
K. Howard

EES213H3 Environmental Impact Assessment and Auditing
To familiarize students with the relevant legislation, qualitative and quantitative approaches and applications for environmental impact assessments and environmental auditing. This course will be on the assessment of impacts to the natural environment and, increasingly, socio-economic impacts will also be discussed. Environmental auditing and environmental certification systems will be discussed in detail. Examples and case studies from forestry, wildlife biology and land use will be used to illustrate the principles and techniques presented in the course. Students will acquire hands-on experience in impact assessment and environmental auditing through case studies.

Exclusions: GGR393R, IN225S, GRC01H
Prerequisites: 2.5 P.C.E. of EES courses or permission of the instructor.
D. Patock

EES214H3 Research Seminar In Environmental Science
Concepts and methods developed in Environmental Science will be applied to practical environmental problems, within the framework of individual research projects; a research proposal and a research seminar will be produced. The course is also designed to

ensure interaction between students from disparate streams of environmental science through participation in post seminars with faculty and which environmental practitioners from the community at large.

Three hour lecture per week.

Prerequisite: Permission of co-ordinator: B. Greenwood

EES215H3 Field Camp
Many environmental problems can only be assessed by collecting ecological and other environmental data in the field. This course will provide students with the necessary skills for fieldwork investigations in a range of environments.

The course is normally taken at the end of second year (May) or just before the beginning of the 3rd year (September) in conjunction with EES207H.

The camp will be held in alternate years in Santa Fe or Argentina (May) or the Rocky Mountains (September).

Prerequisites: EES315H1 and permission of the instructor.

E.N. Lyle and K. Howard

EES216H3 Marine Systems
The world’s oceans constitute more than 70% of the earth’s surface environments. This course will introduce students to the dynamics of oceanic environments, ranging from the deep ocean basins to marginal seas to the coastal oceans. The large-scale water circulation is examined from an observationally based water mass analysis and from a theoretical hydrodynamical framework. The circulation in the open areas, the role of tides, waves and other currents are studied in terms of their effects upon the coastal boundary.

Two hour lecture every week and a two hour practical every other week.

Exclusion: EES231H4
Prerequisite: EES207H
Recommended Course: EES300H
W. Goeth / B. Greenwood

EES220H3 Soil Erosion Control
Primary for students with a good background in Environmental Science. Fundamental theoretical understanding of the role of soil erosion by wind, water and gravity. Prediction of soil erosion based on hillslope and landscape processes in the controlling environmental factors. Detailed instruction in soil erosion control technology and the development of soil conservation strategies. Emphasis on the organisation of group research exercises utilizing the Soil Erosion Laboratory. Practical training in research methodology.

Experimental testing of new methods for soil erosion control. Two hour lecture every week and a two hour practical every other week.

Exclusion: EES231H4
Prerequisite: EEB204 or EEB205
Recommended Course: EES207H
R.B. Bryan

EES224H3 Advanced Readings in Environmental Science
An advanced supervised readings course which can be taken in any session. Students will follow structured independent readings in any area of Environmental Science. A description of the objectives and scope of the individual offering must be approved by the Discipline Representative and the Supervisor of Students.

Two papers are required in the course, they will be graded by the supervisor and one other faculty member. The course may not be used as a substitute for EEB Program requirements.

Prerequisites: A minimum 0.5 P.A. of 2.3 and 3 P.C.E. ’s in EES courses. Permission of the Supervisor of Studies and Discipline Representative.

Faculty

EES228H3 Environmental Law
An introduction to environmental law and the statutory and regulatory framework for environmental management in Ontario. Legal methods available for the resolution of environmental problems; the scope and limits of those methods. Common law and statutory tools; environmental assessment legislation. Two hour lecture and one hour tutorial per week.

Exclusion: IN225S, EEB310H
Recommended Course: EES300H
L. Newell

EES230H3 Microbial Biodegradation
Micro-organisms are central to the movement and fate of organic and inorganic chemicals in the environment, nutrients and contaminants alike. This course will look at the transformative capabilities of micro-organisms and the features of their strategies and their natural habitats that make these critical behaviours possible. Topics will include waste treatment, pesticide degradation, composting, carbon sequestration and release, trace metal cycling and contaminant immobilization, bio-prospecting, and the mechanisms and rates of microbial evolution. Emerging environmental concerns such as micro-organisms and biotechnology will be introduced.

Exclusion: BGY215S
Prerequisites: CHIM402 and BOY450
R. Faltermeier

EES229H3 Principles of Glacial Sedimentology and Stratigraphy
The last 2.5 million years has seen the repeated formation of large continental ice sheets over North America and Europe. The landscape of Ontario is a fossil landscape inherited from the last Laurentide Ice Sheet that disappeared only 10,000 years ago, much of southern Ontario is buried by glacial sediments and the Great Lakes are the direct result of glaciation. The course will review the cause of glaciations and their geological and geomorphological effects paying especial regard to the long record of past glacial and interglacial climates preserved in the Toronto region. The course will present fundamental views of how sediments are produced, how they are transported and deposited and the stratigraphic techniques used to describe and interpret them. The last part of the course will demonstrate the importance of glacial sediments for environmental investigations such as ground water and waste disposal. Two hour lecture, one hour practical and field trips.

Exclusion: GLO201 (GLO202)
Prerequisites: EES395H (EES460H1)
N. Eyles

EES220H3 Contaminant Hydrogeology
Natural hydrochemical processes: the use of major ions, minor ions, trace metals and environmental isotopes in studying the occurrence and nature of ground water flow. Point and non-point sources of ground water contamination and the mechanisms of contaminant transport. Two hour lecture and four hour tutorial per week.

Exclusion: GLO201
Prerequisites: EEB201H & CHIM203Y or MATB41H & CHIM212Y or CHIM211Y
K. Howard

EES226H3 Climate Change Impact Assessment
Climate change over the last 150 years is reviewed to assess the changes that need using both direct measurements and proxy data. Predictions of future climate is reviewed using the results of sophisticated climate modeling. The climate change impact assessment formulation is introduced and applied to several examples. Students will acquire practical experience in climate change impact assessment through case studies. Two hour lecture and one hour practical per week.

Exclusions: GGR393R
Prerequisite: EES200H (GGR201)
W. Gough
Geography (B.A.)

Faculty List
J.R. Mines, B.A. (Queen's), M.A., Ph.D. (Penn.), M.Sc., Ph.D. (Toronto). Professor
E. Ralph, B.A., M. Phil. (London), Ph.D. (Toronto). Professor
M.J. Bruce, B.A., Ph.D. (Sheffield). Associate Professor

Discipline Representative/Supervisor of Studies: T.B.A.

Geography is a broad-ranging subject. As a social science it is concerned with the spatial patterns of human activity and the characteristics of regions and places. It is a subject which is well placed to explore the complex relationships between society and the natural environment as well as the social and economic problems of human land use and settlement. It therefore complements other programs such as: City Studies, Society and Environment, Environmental Science, Political Science, Sociology, Anthropology, Economics, for Management Studies and Development Studies. Geography courses are also listed as options in several college programs including Society and Environment and the Co-op Program in International Development.

MAJOR PROGRAM IN HUMAN GEOGRAPHY
A Major Program for students interested in Human Geography as an academic discipline. This Program equips students with the knowledge and skills needed to understand contemporary social science thought in the context of the communities, societies, and economies formed by human populations, and the ways in which location, landscape, and spatial context shape (and are shaped by) social structures, functioning, and behaviour.

The Major Program in Human Geography requires a total of 7 F.C.E. This program includes requirements in the areas of social science theory, methods, applications, and an advanced seminar. Among these 7 F.C.E., the student must include:
1. [Course Requirement]
2. [Course Requirement]
3. [Course Requirement]
4. [Course Requirement]
5. [Course Requirement]
6. [Course Requirement]

Note: This program requires a background in physical sciences and mathematics. It is recommended that freshmen students take EESS01H, EESS02H, and GGRA01Y, and at least one F.C.E. from among EGRA01H, EGRA02H, EGRA03H, or either MATH125Y or MATH135Y. Students who combine the Major Program in Physical and Human Geography with another Major Program in Science (e.g. Environmental Science) are eligible for the Early Teacher Program.

MINOR PROGRAM IN HUMAN GEOGRAPHY
The requirements for this Program are four full-course equivalents in Geography which must include one full-course equivalent at the C-level or above. GEES09 may be counted towards the requirements of this Program.

EGRG02H Global Processes and Local Environments
An introduction to human geography through the examination of the changes and problems of global restructuring and their relationships to local and regional scales of activity. Concepts and methods of human geography will include geographic, human-society relations, spatial analysis, the production of space, regionalism, landscape and place. These will be applied to the critical analysis of how the globalization of agriculture, manufacturing, tourism, finance and trade, political institutions, popular culture, demographic and environmental changes interact with the growth of cities and the urban regions and the complexity of urban and rural environments. Particular attention will be paid to the sustainability of these interactions. Two-hour lecture per week and one-hour tutorial every second week.
Exclusion: GEOA01, GGRA10, GGRA106

B. Fathorpe

COURSES NOT OFFERED 2002/2003
EESB02H The Great Lakes: An Ecological System
EESC01H Urban Environmental Problems
EESD11H Process Hydrology
and policies. Themes include: changes in human-environment relations, trends in environmental problems, the rise of environmental awareness, ideologies of preservation and conservation, environmental activism and organizations, environmental policy from the local to the international scale, problems of sustainable development. Two hours of lectures per week.
Exclusion: (SOE01), GGR123
Prerequisites: GGR101 (SOE01) and one other A-level course (BSSA01 is strongly recommended)
M. Bunce

IDS09105 Issues In Rural Development
Refer to International Development Studies I briefly course description.

GGR1045 Urban Residential Geography
Micro and macro perspectives on urban residential geography are presented in this course with an emphasis on North American Cities. At the micro level, topics include the search and location behavior of individuals and families as consumers of housing, and suppliers of labor and domestic production. At the macro level, topics include commuting, social ties, neighborhood environments, structure and segregation, changes in the social and physical structure of neighborhoods. In light of these the course will examine the changing role of land use planning and public policy.
Two hours of lectures per week.
Exclusion: GCR157
Prerequisite: University-level half-course in data analysis and one of EBCM01, EBCM02, ISOC02, ISOC04, GGR105, GGR106, GGR27, POL160
T.B.A.

GGR10705 Countryside Conservation
The problems and policies of countryside conservation in Western Europe and North America. Particular attention will be paid to the origin of conservation and preservational attitudes in 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.
Two hours of lectures per week.
Prerequisite: GGR21 (SOE01) and one of GGR101, GGR106
M. Bunce
problems of family and peasant farmers, food security, urbanization of agricultural land, chemical dependency, bio-technology, soil and water resource degradation, impact on natural ecosystems. organic farming and other alternative farming systems. Students will have the opportunity to explore a selected theme in depth in both individual research projects and group workshops.

Two hours of lectures per week.

Prerequisites: One of ANT303, ANT404, IDS801, IDS802, GGR220. (these courses may be taken as co-requisites)

T. Dance

GGR325HR The Greater Toronto Area Processes and issues of urban change, growth and planning in the Toronto region. Planning practices and proposals at the local level and the regional scale will be examined critically. Current trends in population, urban form and structure, and urban design in the Greater Toronto Area will be compared with other rapidly changing urban regions in North America and elsewhere.

Two hours of lecture per week.

Prerequisite: GGR205 T.B.A.

GGR412HR Current Topics in Human Geography Examination and discussion of current trends and issues in human geography, with particular emphasis on recent developments in concepts and methods. Specific content will vary from year to year. Seminar format with active student participation.

Two hours of lectures per week.

Limited enrolment: 30

Prerequisites: GGR311 & one B-level full-course equivalent in Human Geography T.B.A.

GGR321HR Human Geography Case Study Each year, an appropriate case study will be selected and, under the guidance of the instructor, students will choose their own topic and method of investigation with respect to the issues to be addressed. Class is timetabled to introduce the case study and to discuss the topic and methods of inquiry to be pursued by each student. Original data collection and/or research will be encouraged. Key informants and visiting lecturers (for example, from the community) will provide additional information and ideas. Framework is key to the project’s success, but each student will be encouraged to pursue their own topic in detail.

Supervisor of Studies: L. Sawchuk

Health Studies (B.A. B.Sc.)

Faculty List

J. Boddy, B.A. (McGill), M.A. (Calgary), Ph.D. (UBC), Professor

F. Batten, B.Sc., M.A. (NYU), Ph.D. (CUNY), Professor

S. Horrocks, B.A. (Cambridge), M.A. Ph.D. (Harvard), Professor

D. Lampel, B.A. (McGill), M.A. Ph.D. (Michigan), Professor

L. Sawchuk, B.A., M.A. (Manitoba), Ph.D. (Toronto), Associate Professor

Health is an extremely important area of study, both from the perspective of science and social and behavioral sciences. Social scientists consider a wide range of questions, such as: how can health systems and public policy be designed so as to promote health? How does individual behavior affect health? How do health and health needs vary over the lifecycle and between men and women? What can be learned from large scale surveys about health patterns?

This program brings together relevant courses from a range of disciplines, of interest to students who may apply to graduate Programs in health or work in health and related professions. This program is intended to be combined with a major in a relevant discipline.

MAJOR (CO-OPERATIVE) PROGRAM IN HEALTH STUDIES

Supervisor: L. Sawchuk (416-287-7347)

Co-op Co-ordinator: C. Moffatt (416-287-7113)

This is a limited enrollment program, which must be completed in conjunction with another Major as part of a 4-year degree. For information on admissions, fees, work placements, and standing in the program, please see the Calendar section Co-operative Program-General Information, page 65.

Placements will be in the health and health-related sectors, and may be in public institutions, in research institutions, and in the private sector. There are two placements, each of 4 months. In order to be eligible for the first placement, students must complete at least 9 F.C.E., including the Methodology requirements in section 1. HLT401H, and one other course from the program requirements. In addition, they must complete the introduction to Humanities and Social Sciences Co-op Tutorial.

Course Requirements

See requirements for Major Program in Health Studies. In addition, students are required to include HLT502H, Health Research Seminar.

MAJOR PROGRAM IN HEALTH STUDIES This program requires a minimum of 7.5 F.C.E.'s. Students must complete at least 2 F.C.E.'s from Section I, 1.5 F.C.E.'s from Section II, and 4 F.C.E.'s from Section III. No more than 4 F.C.E. can be counted from any single discipline for this program. Students should check carefully the prerequisites required for particular B- and C-level courses: note that SCM303H, SCM311H, SOC401Y and SOC402H are limited enrolment courses, with first preference in these courses going to students enrolled in the enrolment programs in ECOM and SOC respectively.

Section 1: Methodology

Students must choose one of the five groups of courses below:

- [ANT301Y and ANT355H and ANT365H] - [BGY201Y and BGY207Y] or
- [SCM303H and SCM380H and ECOM311H] - [PSY201Y and PSY307H and PSY367H] or
- [SOC301Y and SOC302Y and SOC306H] - [Note that STAB3H may be taken in place of ANT353H, ECOM111H and SOC306H.]

Section II: Core Courses

1.5 F.C.E. as follows:

- HLT201H Plagues and Peoples
- IDS204H International Health Policy Analysis
- POL255H Canadian Health Policy

Section III: 3.5 F.C.E. from the following, which must include at least 1.5 F.C.E. at the C- or D-level:

- ANT315Y Biological Anthropology
- ANT320Y Social and Cultural Anthropology
- ANT355H Health in the Urban Environment
- ANT365H The Anthropology of the Body
- ANT366H Medical Anthropology: Illness and Healing in Cultural Perspective
- ANT367H Medical Anthropology: Biological and Demographic Perspectives
- ANT368H The Anthropology of Food: Human Needs
- ANT369H The Anthropology of Food: Consuming Passions
- ANT371H Ethnomedicine
- BGY171H Microbiology I: The Bacterial Cell
- BGY181H Microbiology II: Perspectives on the Microbiology World of Viruses: Histology Cell and Tissues
- BGY212H The Pathology of Organisms
- BGY250H Fundamentals of Epidemiology
- ECOM340H Economics of Health Care
- HLT201H Health and the Urban Environment
- HLT301H Directed Research on Health Services and Institutions
- HLT302H Readings in Health Studies
- HLT303H Health Research Seminar
- IDS211H Topics in International Health Policy
- LSA401H (BGY401Y is an exclusion for this course)
- PSC322H Abnormal Psychology
MINOR PROGRAM IN HEALTH STUDIES

Students must complete four F.C.E. as follows:

**HLTA01H** Plagues and Peoples
**IDS60H1** International Health Policy
**ANTH55H1** Canadian Health Policy
**POLC55H1** And 2.5 F.C.E. chosen from the following list (which must include at least 0.5 F.C.E. at the C- or D-level):

**ANTB32Y** Biological Anthropology
**ANTB32Y5** Social and Cultural Anthropology
**ANTB56H1** Health and the Urban Environment
**ANTC31H1** The Anthropology of the Body
**ANTC35H1** Medical Anthropology: Illness and Healing in Cultural Perspective
**ANTC35H2** Biological and Demographic Perspectives
**ANTC36H1** The Anthropology of Food: Human Needs
**ANTC44H1** The Anthropology of Food: Consuming Passions
**ANTD23H1** Ethnopharmacology
**BCVC32H1** Foundations of Epidemiology
**HLTC31H1** Directed Readings on Health Services and Institutions
**HLTD01H** Directed Readings in Health Studies (reading course)
**LSCG56H1** Human Biology
**WSTC33H1** Special Topics in Women's Studies and Gender Issues (offered as women and human rights courses)
**HLTD01H1** Directed Readings in Health Studies (reading course)

HLTA01H Plagues and Peoples

Considers the origins, antiquity and impact of plagues on human societies (e.g., the Black Death, Tuberculosis and poverty complex, Cholera and sanitation and movement, Black Vomit). Fever and the price of trade, the ‘quiet’ epidemics of sexually transmitted diseases. Such epidemics of infectious disease have dramatically influenced course of human history and continue to exact a huge toll on human life. The course will examine cultural, evolutionary, epidemiological and ecological themes. An exploration of models and general principles of infectious disease or “plagues” will be followed by an examination of specific “plagues” as means of examining the bio-social and environmental contexts within which epidemics arise and the ways in which they transform societies. Consideration will be given to historic, contemporary and newly-emerging infectious epidemics, with a view to understanding why “plagues” emerge and how their occurrence is intimately linked to human behaviour. Two hours of lectures per week.

L. Selvick

HLTC07H Directed Research on Health Services and Institutions

Provides students with the opportunity to analyze work of health institutions. Students taking this course will arrange, in consultation with the instructor, to work (usually as a volunteer) in a health institution. They will write a major research paper related to some aspect of their experience. They will build on material learned in IDS60H1 and complete work in POLC55H1. Students must obtain consent from the Supervisor of Studies and supervising instructor before registering for this course.

Pre-requisite: HLTA01H & IDS60H1 & permission of the instructor
Co-requisite: POLC55H1 is recommended

Members of Faculty

HLTD01H Directed Readings in Health Studies

For upper level students whose interests are not covered in two of the other courses normally offered, courses will normally only be available to students in their final year of study at the College. Students interested in taking courses for the Supervisor of Studies and supervising instructor before registering for this course.

Pre-requisite: HLTA01H & IDS60H1 & POLC55H1 & permission of the instructor

Members of Faculty

**COURSES NOT OFFERED 2002/2003**

HLTB01H3 Health and Urban Environment
**HLTD02H3** Health Research Seminar

**History**

(3-4 A.)

Faculty List

J.R. Moir, M.A., Ph.D. (Toronto), D.D. (Puebla, College, Montreal), Professor Emeritus
E.W. Dowler, A.M. (Harvard), Ph.D. (London School of Economics), Professor
M. Ernesto, B.A. (Toronto), B.Phil. (Oxon.), Professor
M. Geyser, M.A. (Potsdam), Ph.D. (Toronto), Professor
J.R. Robertson, M.A. (McGill), Ph.D. (Toronto), Professor
L.J. Alvey, M.A. (McMaster) M.Phil., Ph.D. (Yale), Associate Professor
F. Iaccovetta, M.A., Ph.D. (York, Canada), Associate Professor
J.L. Pearl, M.A., Ph.D. (Northwestern), Associate Professor
A.N. Sheph, M.A., Ph.D. (Toronto), Associate Professor
A.M. Blake, B.A. (Sussex), Ph.D. (American University), Assistant Professor
S.J. Rockel, M.A., Ph.D. (Toronto), Assistant Professor

Discipline Representative:

J.R. Robertson (416-287-7146)
The study of history is intended to enhance our understanding of society by examining the experiences of particular peoples and their societies in the past. Its findings depend upon the precise evaluation of specific evidence. History's concerns and goals are humanistic, its methods draw from all forms of scholarly endeavour. History courses, therefore, can play a part in a number of interdisciplinary programs and can serve as an adjunct to courses in Politics, Philosophy, Literature, Economics, Sociology, and Anthropology. History can also be usefully combined with language study.

The History curriculum combines a variety of approaches and teaching in order to satisfy a number of purposes. HS400Y provides both a general introduction to the study of history at the university level, and the preparation for further studies in World History. A series of seminars (HISUG0-09) provides the comprehensive foundation of knowledge in particular areas. In upper-level courses students study in more specific areas, periods, or problems. D-series courses are conducted as seminars. In these classes students make close and thorough studies of particular questions and present their findings in discussions and major essays. There are courses at all levels in the following areas and periods of history: Medieval Europe, Modern Europe, Britain, Canada, America and the United States, Russia, Ancient Greece and Rome, Africa, Asia, and Latin America.

SPECIAL PROGRAM IN HISTORY

Supervisor: A.N. Sheph (416-287-7133)

1. **Pre-1850 Course**

Students must complete at least ten full-course equivalents in History. These ten must include HS400Y (or HIS400Y) and five upper-level full-course equivalents (C- or D-level courses on the Scarborough Campus, 3000/4000-level courses on the St. George Campus). At least one of the five must be a D-level course.

2. **Pre-1850 Course**

Pre-1850 Courses. Of the ten at least two full-course equivalents must deal with the period prior to 1815.

3. **Areas of Study**

a. Students are also required to take courses in at least three different areas of history from the following groups:

   i. Canadian
   ii. American
   iii. Medieval
   iv. European
   v. African, Asian, and Latin American
   vi. Ancient Greek and Roman

   b. Students must complete at least one course in Canadian History.

   c. Students must complete HIS400Y.

**MAJOR PROGRAM IN HISTORY**

Supervisor: A.N. Sheph (416-287-7133)

1. **Number of Courses**

Students must complete seven full-course equivalents in History. These seven must include HS400Y (or HIS400Y) and three upper-level full-course equivalents (C- or D-level courses on the Scarborough Campus, 3000/4000-level courses on the St. George Campus).

2. **Pre-1815 Course**

Of the seven at least one full-course equivalent must deal with the period prior to 1815.

3. **Areas of Study**

Students are also required to take courses in at least two or two different areas of history from the following groups:

   i. Canadian
   ii. American
   iii. Medieval
   iv. European
   v. African, Asian, and Latin American
   vi. Ancient Greek and Roman
MINOR PROGRAM IN HISTORY
Supervisor: A.N. Steep (416-287-7133)
Students must complete four full courses or the equivalent in History, of which at least one must be at the C- and/or D-level. Students must complete four full courses or the equivalent in History, of which at least one must be at the C- and/or D-level. NOTE: Students are advised to consult the prerequisites for C-level and D-level courses when planning their individual programs.

NOTE: For co-op opportunities related to the Specialist and Major Programs in History, please see the Calendar entry for the Humanities Cooperative Program, page 108.

HSA202Y3 The Twentieth Century World
An introduction to world history from the age of imperialism to the modern day, emphasizing how the diversity and the connectedness of the modern human experience.

Major themes will include: imperialism and decolonisation, social and political organization, demography, technology and economic development, religion and morality, art and science, international relations and war.

Exclusion: HSB101
S. Rockel

HBSI01H3 History and Evidence
An examination of the nature and uses of evidence in historical and related studies. Historians use a wide variety of sources—public and private documents, newspapers, eye-witness accounts, oral testimonies, artifacts, statistical series, etc.—as evidence for meaningful statements about the past. This course explores what is reliable evidence and how historians evaluate sources and test their reliability as historical evidence. Two-hour lecture and one-hour tutorial.

E.W. Dowler

HBSI02Y3 British from the Eighteenth Century to the Present
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.

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

Exclusion: HSB239
European Area
F. Lacina

HBSI03Y3 History of the United States
Major themes from the Revolution to the present.

The course will focus on such questions as independence, political organization, political parties, territorial expansion, nationalism and sectionalism, Civil War, reform movements, the slavery and civil rights question, the response to industrialization, progressivism, and the United States as a world power.

Exclusion: HSB237
American Area
A.N. Shephard, M. Blake

HBSI04Y3 Canadian History
The history of Canada from the first European contacts to the present. Topics studied include: exploration and settlement; the institutions and life of New France; the British Conquest and its results; consequences of the American Revolution; British settlement; Confederation and the constitution; changing patterns of immigration; the impact of two world wars; the Great Depression of the 1930s; Americanization and regionalism; roots of the current crisis in relations between English-speaking and French-speaking Canada.

Exclusion: HSB113, 261, 262, 263
Canadian Area
T. Bullock

HBSI05Y3 Europe in the Middle Ages
A chronological survey of economic, political, religious, and social developments in Western Europe (including Britain) from the late Roman period to the fifteenth century. The focus 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 circuits that linked Europe to its world and provided the dynamic that shaped the political and social institutions.

Exclusion: HSB226
Pre-1815 credit
Medieval Area
T.B.A.

HBSI06Y3 Early Modern Europe, 1450-1800
The history of Europe from the Renaissance to the Age of Revolution.

This course covers a tumultuous three centuries, marked by systemic violence. While the political structures that existed by 1500 remained little changed through most of this period, intellectual, religious and social upheavals were constant. We will examine economic life, social structures and institutions of government. The renaissance, reformation, witchcraft crisis, scientific revolution and the Enlightenment will be discussed. One two-hour lecture plus tutorial each week.

Exclusion: (HSA01) HSB243H, HSB244H
Pre-1815 credit
European Area
J. Pearl

HBSI07Y3 Modern Europe
A survey of European developments, social, cultural, economic and political since the French Revolution.

Major themes will include: revolution, industrialization, nationalism, imperialism, war, science, technology, art and literature.

Exclusion: (HSA01), HSB241, 242
European Area
T.B.A.

HBSI08Y3 Imperial Russia, 1802-1917
The history of the Russian Empire from Peter the Great to the industrialization drive at the end of the nineteenth century.

Peter the Great was the first of the Romanov tsars to be crowned as Emperor of All the Russians. This course examines the development of imperial institutions, the role of the empire, the system of social estates and the growth of social classes, the end of serfdom, attempts to reform state and society, and revolutionary resistance to the imperial state. Lectures and tutorials.

Exclusion: HSB107Y, HSB250
0.5 Pre-1815 credit
E.W. Dowler

HSCI11Y3 France from Reformation to Revolution, 1500-1789
The development of French politics and society from the wars of religion to the reign of Louis XVI.

The period is characterized by rapid, often traumatic change in which France forcefully asserted itself as the principal power on the European continent. Special considerations will be given to the relations between political developments and social, religious and intellectual phenomena. Two one-hour lectures and one tutorial session per week.

Exclusion: (HBS11) HSB360
Prerequisites: (HSA01), HSB04 or a B-level course in European history
Pre-1815 credit
European Area
J. Pearl

HSCI12Y3 The Sixteenth Century Religious Reforms
How and why does a culture rework its world view? What happens when it does?

In the early sixteenth century most west Europeans were Catholics; by the end of the century Catholicism had changed greatly and substantial minorities had replaced it with other forms of Christianity (e.g. Lutheranism, Calvinism, Anglicanism, "anabaptism"). This course explores the break up of the medieval church, the creation of the modern forms of Western Christianity and the connections between ideas and social change.

Exclusion: HSB083 (HSB13) HSB353Y
Prerequisites: HSB04 or C-level course in European history
0.5 Pre-1815 credit
European Area
L.I. Alway

HSCI13H3 Sex and Gender in Early Modern Europe
An exploration of early modern (c. 1450-c. 1650) ideas about sex and gender, and of the social, cultural, and demographic expression of these ideas. Using a selection of ancient, medieval, and renaissance texts considered authoritative in the early modern period, students will familiarize themselves with the post-industrial understanding of how the body worked, and what differentiated the sexes. Modern historical analysis will illuminate issues like courtship and marriage patterns, family size, the sexual division of labour, and the gendering of both everyday and of political life. A course for discussions.

Exclusions: (HSC10), HSC245, HSC345, V163
Prerequisites: One of (HSA02), (HSC30), HSB04, HSB124H, HSB250, HSB901Y, W163A01 (HSA04Y)
Pre-1815 credit
L.I. Alway

HSCI18Y3 Europe in the Enlightenment, 1700-1789
An examination of the ideals of the Enlightenment against the background of the social and political reality of Europe in the eighteenth century.

Emphasis will be placed on the incongruity 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 milieu which spawned them. In the second term the
attempts of the so-called enlightened despots to apply Enlightenment ideas to the life of their states will be examined. Lectures and discussion. Exclusion: HIS318 (H) HIS324
Prerequisite: HIS210 or HIS215 or a B- level course in European history.
Pre-1815 credit
European Area
E.M. Dowler
HIS231H3 Early Modern Britain: From The Wars of the Roses to the Defeat of the Armada
An overview of political, social, economic, and cultural patterns with particular emphasis on the reigns of Henry VIII and Elizabeth I.
Special attention will be given to the power and personalities of the monarchs and to the religious crisis that made England into a Protestant state. Lectures and discussion. Exclusions: HIS223 (H) HIS223, HIS228
Prerequisite: Any B-level full course equivalent.
Pre-1815 credit
L.L. Abrey
HIS232H3 Early Modern Britain: From the Armada to the Formation of Great Britain
An overview of political, social, economic, and cultural patterns.
Special attention will be given to the seventeenth century constitutional crisis (particularly the Civil War and republican interludes), the beginnings of a modern economy, and expansion overseas.
Exclusions: HIS223 (H) HIS223, HIS228
Prerequisite: Any B-level full course equivalent.
Pre-1815 credit
L.L. Abrey
HIS243H3 Revolutionary America, 1760-1790
A seminar investigating the origins, causes and effect of the American Revolution.
Attention will be paid to the social and political organization of America, the political ideas of the Revolution; revolutionary changes in the new state, the significance of the Constitution; and the effect of the revolution on Canada and Britain.
Exclusions: HIS210 (H) HIS215, HIS218 (H)
Prerequisite: Any one of HIS202 or HIS203 or HIS204
0.5 Pre-1815 credit
American Area
A.N. Shey
HIS239Y3 Urban Lives and Urban Cultures: The American City, 1890-1990
This course examines the role of urban culture in the development of the United States in the late 19th and 20th centuries. In the first term we examine major trends in American urban history: anti-immigration, racial and ethnic exclusion, gender and sexuality, nature in the city, transportation and communication, architecture and urban planning, "high" and "low" culture, work and leisure. In the second term we focus on our attention on the two most influential American cities of the age: New York and Los Angeles.
Exclusion: HIS239Y4
Prerequisite: HIS239Y3 or permission of the instructor.
American Area
A.M. Blake
HIS245H3 Immigrants and Race Relations in Canadian History
The history of immigrants, immigration policy, and race relations in Canada from the European-Native contact period to the post-World War II era.
Organized partly chronologically and partly by theme, the lectures and reading material will introduce students both to the perspectives and methodologies of the field and to the diversity of the ethnic/racial experience in Canada. Emphasis will be given to the experiences of each group in Canada's history, the immigrant, the West Coast Asian, continental Europeans; and the experiences of each group in Canada's history, the immigrant, the West Coast Asian, continental Europeans.
Prerequisite: Any four (4) F.C.E.'s
Canadian Area
P. Jacomet
HIS247Y3 Atlantic Canada
The Maritime provinces and Newfoundland in the 19th and 20th centuries. Subjects include the following: First Nations and the impact of European contact; French regime and the development of a distinctive Acadian way of life; Irish settlement; responses to the American Revolution; the Loyalists; colonial economies and social structures; ethnic minorities, including Black Maroonians; literacy and intellectual development; struggles for responsible government; and the impact of resource-based industry in Newfoundland. Confederation; economic development in the late 19th century.
Prerequisite: Any four (4) F.C.E.'s
or permission of the instructor.
Canadian Area
P. Jacomet
HIS278H3 Social History of Imperial Russia, 1700-1990
The development of Russian society from the revolution 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 this course.
Prerequisite: HIS207
European Area
E.W. Dowler
HIS209Y3 Africa since 1800
A consideration of themes in the economic, social, and political history of modern Africa, from the era of the slave trade to the era of structural adjustment.
The course will emphasize Sub-Saharan Africa, although some time will be given to North Africa. It will also consider contact with other parts of the world, including the Indian Ocean and Europe. Throughout the course, the capacity of Africans to overcome major problems will be stressed. Important themes will include the slave trade; pre-colonial states and societies; pre-colonial economic and labor systems; religious change; colonial conquest and resistance; colonial economics; gender and ethnicity; political movements and decolonization; and development and underdevelopment.
Exclusions: HIS239Y4, HIS216Y1, HIS239Y5
Prerequisite: HIS207Y1 or any F.C.E. in modern history.
American Area
S. Placa
HIS208Y3 Reform Movements and Reform Politics in Nineteenth-Century United States
A seminar investigating reform movements and issues in the United States throughout the 19th century.
Topics will include the effects of social and economic policies and changes, immigration, urbanization, racial and religious relations, free blacks, gender and women's movements, anti-slavery, temperance, peace and other reform campaigns, religious revivalism, American utopianism and communal experiments, workers' movements, the major political reform movements, territorial expansion, and frontier society.
Limited Enrollment: 15
Prerequisite: Any B-level course or equivalent
American Area
A.N. Shey
HIS207H3 History and Media in the United States
A seminar examining how the recent electronic media has interpreted the American past. We will view television and film documentaries, and examine websites. We will consider how producers working in these media have used different types of historical evidence—visual, aural, textual, material—to construct their narratives and arguments. As historians, we will bring our knowledge of historical narrative, methodology, and critical analysis to evaluate these interpretations of history. Instead of writing a traditional term paper, students in the course will construct their own websites addressing a particular aspect of the relation between history and the media. These final projects will test students' research, writing, and critical thinking skills, and require the acquisition or improvement of computer skills.
Two-hour seminars.
Limited Enrollment: 15
Prerequisite: HIS203 and at least one other B- or C-level course in History or permission of the instructor.
A.M. Blake
HIS208H3 Seeing America: Minority Perspectives on U.S. Culture, 1890-1900
This course examines United States culture from the perspectives of those perceived as members of a "minority" by the American majority for reasons of race, ethnicity, sexuality, or immigrant status. The class will examine the meaning and significance of the United States in the twentieth century. This course will cover the perceptions and representations of such minorities or "others.
Limited Enrollment: 15
Prerequisite: HIS207Y1 and at least one other B- or C-level course in History
American Area
A.M. Blake
HSC041H3 Selected Topics in Canadian Women's History

A seminar investigating the role, lives, and struggles of women in Canada from the time of initial European contacts with the First Peoples to the present-day. The course will highlight the changing positions that women have held throughout history, the relations between men and women and among 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 radical women, and immigrant and minority women.

Limited enrolment: 15
Prerequisites: Any course in Canadian history or HSC101Y or HSC104H3

Canadian Areas
F. Iacovetta

HSC069H3 East African Societies in Transition

A seminar study of social change in East Africa during the late pre-colonial, colonial and post-colonial periods. A range of revolutions associated with migrations, colonization, nationalism, economic development, and conflict, will be investigated. Emphasis will be placed on the rapid although uneven adaptation of East African peoples to the integration of the region into the wider world. Some attention will be given to the role of civil conflicts since independence. Student presentations are required.

Limited enrolment: 15
Prerequisites: HSC101H, HSC600, HSC91Y or any two history courses

Affiliated with: Canadian and Latin America area, S.J. Rockel

History courses in Classical Studies (see Classical Studies for full descriptions of courses offered in 2002/2003), all of the following CLA history courses are Pre-1815 credits and can be used to fulfill History Program requirements.

CLAS153Y3 The Mediterranean World
J.H. Corbett

CLAS42H3 Army and Empire in the Roman World
J.H. Corbett

CLAC41H3 Slavery in the Roman Economy
J.H. Corbett

COURSES NOT OFFERED 2002/2003

HSC05F3 History of Africa Since 1800
Prerequisite: HUM03B0
HSC05Y3

HSC07Y3 Russia from the Sixteenth Century to the Present
Exclusion: HSC250

HSC106H3 Africa in the Twentieth Century
Exclusion: HSC105Y, HSC300Y, HSC395

HSC110H3 Topics in Caribbean History
Modern France 1750 to the Present
Exclusion: HSC101Y
Prerequisite: HSC104H3 or any 2-level course in History or permission of the instructor

HSC115H3 The Black Experience in the United States Since the Civil War
Exclusion: HSC101Y
Prerequisite: HSC104H3

HSC144H3 Quebec Since 1759
Exclusion: HSC101Y, HSC104H3

HSC147Y3 The Canadian Left, 1867 to the Present
Exclusion: HSC101Y
Prerequisite: HSC104H3

HSC148H3 Canada Between the World Wars
Exclusion: HSC101Y
Prerequisite: HSC104H3

HSC149H3 A Social History of Ethiopia
Exclusion: HSC101Y
Prerequisite: Any 2-level history course or higher which considers Europe, Africa or Asia before the 20th century. HSC104 is highly recommended or HSC800

HSC275H3 Social History of Revolutionary Russia, 1900 to the Present
Exclusion: HSC101Y
Prerequisite: HSC104H3

HSC280H3 Popular Culture in Early Modern Europe
Exclusion: HSC101Y, HSC104H3
Prerequisite: HSC104H3 or any 2-level course in History

HSC286H3 Revolutionary France, 1789-1800
Exclusion: HSC101Y
Prerequisite: HSC104H3 or any 2-level course in European History

HSC287Y3 Germany in the 19th and 20th Centuries
Exclusion: HSC101Y, HSC104H3
Prerequisite: HSC104H3

HSC296H3 Topics in Asian History
Exclusion: HSC104H3
Prerequisite: One 100-level in History

HSC311H3 Crime and Punishment in Early Modern Europe, 1000-1800
Exclusion: HSC104H3
Prerequisite: HSC104H3 or HSC300Y

HSC317Y3 Power and Religion in the Twentieth Century
Exclusion: HSC104H3, HSC116Y
Prerequisite: HSC104H3 or any 2-level course in History

HSC319H3 Weimar Culture
Exclusion: HSC104H3

HSC330H3 Reform Movements in the United States, 1790-1860
Exclusion: HSC104H3
Prerequisite: Any 2-level history course or equivalent

HSC355H3 The Crusades: I
Exclusion: HSC104H3
Prerequisite: HSC104H3 or any 2-level course in History

HSC369H3 The Crusades: II
Exclusion: HSC104H3
Prerequisite: HSC104H3 or any 2-level course in History

HSC390Y3 Southern Africa from Earliest Times to the Present
Exclusion: HSC104H3
Prerequisite: HSC104H3 or any 2-level course in History

HUMBC02H3 What Is Canadian? A text and media-based interdisciplinary exploration of the ways that we make cultural valuations and of the ways that we define our identity as Canadians.

The question of how to define Canadian identity has become a central issue of our culture. Despite sustained attempts to answer this question—by government institutions such as Canadian Heritage and the CBC as well as through the popular media—the answer remains elusive.

This course will examine the ways in which our identity is defined, and also ask students to provisionally answer questions about "what" Canadian-ness is from an informed critical perspective.

Towards this end, students will explore different formulations of "Canadian" drawn from both popular and scholarly readings, as well as from other kinds of cultural "texts" such as visual art, advertisements, and new media. As a central component of this course, students will prepare individual web page projects that explore an aspect of Canadian experience.

K. Guest
Co-operative Program in Humanities (B.A.)

CO-OPERATIVE PROGRAM IN HUMANITIES

Supervisor of Studies: W. Dowler
416-287-7163, dowler@utoronto.ca

The Co-operative Program in Humanities allows students to combine their chosen academic program with work experience that draws upon the knowledge and skills acquired during their academic studies. Students are required to complete a Specialist Program offered by the Division of Humanities, or two Major Programs, at least one of which is offered by the Division, and to complete the requirements of an Honours (20-course) B.A. degree. For information on fees, work placements, and studying in the program, please see the Calendar section Co-op Program: General Information, page 65.

The program requires eight four-month terms of study and two four-month work terms over a five-year period.

NOTE: For information on the Specialist (Co-operative) Program in Arts Management, which operates separately from the Co-op Program in Humanities, see page 203 of this Calendar.

Course Requirements

Students in the Co-operative Program in Humanities must complete all 3 F.C.E.'s of the following core courses. Where appropriate, courses in this list may also count towards the completion of a Specialist or Major Program.

ENGAIY1T Introduction to Literary Study: The Twentieth Century

and

ENGA12H Writing Workshop for ENGA1Y1

or

[LOGA10Y Current Approaches to the Academic Writing Process: A Course for Non-Native Speakers of English]

and

[LOGA19H Writing Practicum: A Course for Non-Native Speakers of English]

HISB0H1 History and Evidence

PHLBS0H The Art of Thinking

[VPARB0H or

CSCA0G2 The Why and How of Computing]

In addition to the core courses, students must complete the requirements of a Specialist Program offered by the Division of Humanities, or of two Major Programs. A Major Program in Humanities may be combined with a second Humanities Major, or with a Major offered by any other academic division of UTSC.

The following programs offered by the Division of Humanities may be chosen by students:

specialist Programs

Art and Culture

English

History

Psycholinguistics

major Programs

Art History

Drama

English

French

History

Linguistics

Music and Culture

Philosophy

Studio

Women's Studies

or the course requirements for these programs, please see the program description elsewhere in this Calendar.

Students in the Co-operative Program in Humanities are encouraged to use their elective courses to take courses outside their main(s) of concentration in order to broaden their understanding of contemporary social issues and their historical contexts, and to enhance their communication skills. Students would consult with the Supervisor of Studies for the Co-operative Program in Humanities as well as with their discipline program supervisor about their course selection.

Work Terms

In addition to work terms, students must be in good standing in the program and have completed at least 1.5 C.E.'s, including at least 2.5 F.C.E.'s from among the Co-op core courses and at least 4.5 C.E.'s towards the requirements of the Specialist Program or the Humanities Major program(s) in which they are enrolled. In addition, students must have completed the co-op program: introduction to Humanities and Social Sciences Co-op tutorial.

The Specialist Program in International Development Studies Program in International Development Studies (B.A., B.Sc.)

Faculty List

A. Beatty, B.A. (Western), M.A. (Yale), Professor Emeritus

R.B. Bryan, B.A. (Dundie), Ph.D. (Sheffield), Professor

J. Boddy, B.A. (McGill), M.A. (Calgary), Ph.D. (UBC), Professor

S. Horton, B.A. (Cambridge), M.A. Ph.D. (Harvard), Professor

M. Lanroos, B.C. (McGill), M.A. Ph.D. (Michigan), Professor

E.C. Ralph, B.A. M Phil (London), Ph.D. (Toronto), Professor

J. Trzciuch, B.A., M.A., Ph.D. (Toronto), Professor

M.J. Want, B.A., Ph.D. (Sheffield), Associate Professor

R.B. Pulverby, B.C., M.Re. (Toronto), Ph.D. (Carlton), Associate Professor

P.-C. Huang, B.A. (National Chiao-Tung University), M.A., Ph.D. (California), Associate Professor

P. Konstant, B.A., M.A. (London), D.Phil (Oxford), Associate Professor

A.G. Iron, B.Sc. (Wales), M.Sc., Ph.D. (McGill), Associate Professor

N. ten Korsten, M.A., Ph.D. (Toronto), Associate Professor

S. Baedford, B.A. (Toronto), M.A. (McMaster), M.A., Ph.D. (Virginia), Assistant Professor

P. Laido, B.A., M.A. (York), M.A., Ph.D. (Edin Hopkis), Assistant Professor

S. Rodki, M.A., Ph.D. (Toronto) Assistant Professor

The Specialist (Co-operative) Program in International Development Studies (B.A., B.Sc.)

Coordinator: C. Mathers (416-287-7111), Professor Emeritus (416-287-7105)

Supervisor of Studies: P. Konstant (416-287-7305)

IDS Mission Statement

The Co-operative Program in International Development Studies at University of Toronto at Scarborough is a five-year undergraduate Program which aims to provide students with a critical understanding of international development issues through exposure to a variety of academic disciplines and to another culture. The Program combines interdisciplinary academic study in the social and environmental sciences and humanities with a practical work experience in a developing country. IDS students can graduate with an Honours B.A. or B.Sc. with a Specialist certification in International Development Studies.
The majority of students obtain placements with Canadian employers—Canadian development agencies (NODS), research institutes or private sector consulting firms. The placement experiences vary according to each student's disciplinary and regional preferences and abilities, the availability of positions, and the practicability and safety of development work. Students who wish to carry out their placement in a developing country where there is no Canadian employer working, may be asked to finance the living allowance expenses of the placement themselves.

The IDS work placement is an integral part of the Co-op curriculum and is designed to provide students with practical hands-on experience of the development process in a Third World field setting. Students are placed as interns with Canadian or local development agencies or universities in a developing country for a 10-12 month period. Students are required to submit progress reports every 2 months and begin work on a major research project based on their work placement experience. To be eligible for placement, students must have completed 14.5 full-course equivalences including 12 IDS credits. These 12 must include 10 credits from sections A and B (of which at minimum 7.5 must be from Section A) plus regional and language requirements and the completion of the Introduction to IDS Co-op Tutorial (see below). The IDS work placement normally begins after the third year of study and requires a minimum of 2 years of residence in the Program. Extra course credit of 0.5 full-course equivalent is granted for each 6 month work period. Work term credits are in addition to the full-course equivalent requirement and are graded on a Credit, No Credit system. Inability to submit a detailed examination of their placement, students will participate in a one day placement debriefing session with the IDS administrators.

Introduction to IDS Co-op Tutorial
Students participate in a one-credit one-day tutorial comprising of the end of the year in which they complete the 10 F.C.E. and continue through the following year (the pre-placement year). Presentations, group exercises and individual assignments prepare students for the placement experience. There are sections of the tutorial on cross-cultural understanding, health and safety issues on placement, researching the IODMEM thesis and other key topics. A weekend retreat with the first three who have returned from placement provides the opportunity for sharing of first-hand experience.

Course Requirements
All students must complete:
- a common core Program (at least eight and one-half full-course equivalents) in environment and social sciences;
- an advanced option (at least eight full-course equivalents) in either the social science or environmental streams (Section B, below);
- a regional language and culture option (Section C, below) (at least two full-course equivalents);
- IDS601Y, an advanced seminar related to their work placement experience (Section D, below);
- other elective courses (Section D, below)

In the first two years of study students must complete as much of the common core Program and of language studies as possible. Students must choose their regional and language option (Section C) no later than year 2 and their advanced option (Section B), no later than the beginning of year 3. Students are also strongly advised to complete at least one full-course equivalent in core Program science courses each academic year prior to placement.

Each student's Program 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 Program: at least eight and one-half full-course equivalents including:

- (PLEASE NOTE THAT STUDENTS MUST COMPLETE THE CREDIT REQUIREMENT REGARDING REGISTERING IN COURSES ON OTHER CAMPUSES)

L Required:
ANTC10H Anthropological Perspectives on Development
BIOA01Y Introduction Biology

or

A half course in biology chosen in consultation with Supervisor

ECMA02Y Introduction to Economics: A Mathematical Approach

or

ECMA03Y Introduction to Economics

EESB41H Environmental Science Introduction to Environmental Science

EESB40H Principles of Hydrology

or

EESB40H Biotechnology - Environmental Implications

EESB40H Introduction to Soil Science

JESCOH Remote Sensing and Geographic Information Systems

EESC10H Environmental Impact Assessment

ERG20H Soil Erosion Control

FOR20H Conservation and Management of World's Forests II (St. George Campus)

IDSB01H International Development Studies: Political Economy

IDSB02H International Development Studies: Development and Environment

IDSC04H Project Management International Relations

POLB01Y The Twentieth Century

POLB01Y Comparative Politics of Political Development

+ Students in the Environmental stream take EESB40H Hydrology.

* Students interested in pursuing further Biology courses are advised to select ROYABY.

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

NOTE: Students who follow the Environmental stream will be recommended for a B.Sc. degree and those who follow the Social Sciences stream will be recommended for the B.A. degree.

I. Social Science Stream
These full-course equivalents from:

ANTB01Y The Ecological Perspective in Anthropology

ANTB02Y Introduction to Social and Cultural Anthropology

ANTC11Y The Anthropology of Women

ANTC19H Economic Anthropology

ANTC09H Fieldwork in Social and Cultural Anthropology

ANTC11H Medical Anthropology I: Illness and Healing in Cultural Perspective

ANTC22H Medical Anthropology II: Biological and Demographic Perspectives
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 must obtain approval of their choice from the Supervisor of Studies.

B Required:

ISDS201Y International Development Studies: Advanced Seminar

and

every five and one-half other full-course equivalents which satisfy the degree requirements.

MAJOR PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES

Supervisor: F. Kingston (416-277-7305)

Students must complete eight full-course equivalents for the Major Program in International Development Studies. This includes all courses in Section I and four and one half courses from Section II. In section II students must take one full-course equivalent from at least two of the three lists of courses provided. In choosing courses, students must pay careful attention to the prerequisites for higher level courses.

Section I

Students must take all three and one-half full-course equivalents:

ECMAS2Y Introduction to Economics: A Mathematical Approach

or

ECMAC0YY Introduction to Economics

EEDS210H International Development Studies: Political Economy

ISDS201H International Development Studies: Development and Environment

POLB21Y Comparative Politics of Political Development

Section II

Students take four and one half full-course equivalents with at least one full course equivalent from two of the following groups:

A. Social/Cultural Perspectives

ANTB01Y Ecological Perspective in Anthropology

ANTB03H The Americas: An Anthropological Perspective

ANTB04H African Cultures and Societies II: Survey

ANTB07H Comparative Slavery

B. Cultural Perspectives

ANTB30Y Social/Cultural Anthropology

ANTB35Y Anthropology and the Middle East and Islamic World

ANTC06H African Culture and Society II: Case Studies

ANTC10H Complex Societies: Anthropological Perspectives of Development

ANTC11Y Anthropology of Women and Gender

ANTC19H Economic Anthropology

ANTC12H Political Anthropology

ANTC11H Medical Anthropology

ILLH10 Anthropology, Illness and Healing in Cultural Perspectives

ANTC6H Anthropology of Food: Harmful Nuts

ANTC6HH Anthropology of Food: Consuming Passions

ISDS210H International Development Studies: Political and Historical Perspectives

POLC6Y Politics and Society in the Middle East

POLC6Y Politics and Society in Latin America

POLC6H Selected Topics on Developing Areas

SOC34H Globalization: Causes, Consequences and Critique

SOC35H Women and Development

SOC38H One half-course in Statistics

SOC20Y One full-course in Statistics

Students in the program are strongly encouraged to include a course in methods (ISDS30Y, ISDS32H, ANT30H, POLC75H) or a course in statistics.

C Regional and Language Options: At least two full-course equivalents chosen 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 must obtain approval of their choice from the Supervisor of Studies.
C. Environmental Perspectives

EBSG0H Principles of Geomorphology
EBSG0H Principles of Climatology
EBSG0H Principles of Hydrology
EBSG0H Fundamentals of Social Science
EBSG0H Botany
ECS01H Remote Sensing and Geographical Information Systems
ESE01H Environmental Impact Assessment
BOT05H Population Ecology
FOR01H Conservation and Management of Wildlife
Forres (St. George Campus)

MINOR PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES

Supervisor of Studies: P. Kingston
(416-287-7305)
Students must complete 4 F.C.E.'s for the Minor Program in International Development Studies, as follows:

ECMA0Y Introduction to Economics: A Mathematical Approach
or
ECMA0Y Introduction to Economics
IDS01H International Development Studies: Political Economy
EESA0H Introduction to Environmental Science
IDS02H Development and Environment

1.5 F.C.E. from Section II for the Major Program, which must include 1 F.C.E. at the C- or D-level.

Students are advised that POL01Y is a very useful complementary course, although it can only be counted for 0.5 F.C.E. of the requirements for the Minor Program.

THE INTERFACULTY COMBINATION PROGRAM IN INTERNATIONAL DEVELOPMENT AND ENVIRONMENTAL STUDIES

Supervisor of Studies: P. Kingston
(416-287-7305)

This is an Interfaculty Program for Scarborough students wishing to pursue the Specialist (Co-op) Program in International Development Studies in conjunction with a Major in Environmental Studies at Mississauga College. Students registered in the Specialist or Major in Environmental Studies at Mississauga College may choose also to complete the requirements for a Major in International Development Studies offered by the University of Toronto at Scarborough.

Admission to the Program

This is a limited-enrolment program. Students already registered in the Specialist (Co-op) Program in International Development Studies must benefit for the Interfaculty Program.

Program Requirements

See the University of Toronto Calendar for Program Requirements at www.artsandscience.utoronto.ca/calendar. Look also for Environmental Studies under Arts Colleges.

Program Coordinator: David Powell
david.powell@utoronto.ca or (416-971-5141)

EESA0H Introduction to Environmental Science

Refer to Environmental Science for description.

IDS01H International Development Studies: Political Economy

Introduces students to major development problems, focusing on international economic and political economy factors. The course examines trade, aid, international institutions such as the World Bank and the IMF, the GATT and how these affect developing countries. The course examines both traditional economic policies as well as critiques of these perspectives. Some country case studies may be used to illustrate different approaches to development. This course can be counted for Program credit in ECM Programs.

Two hours of lecture per week and a one hour tutorial per week.

Exclusion: ECMA02Y
Prerequisite: ECM002Y or ECM020Y

IDS02H International Development Studies: Development and Environment

An introduction to the environmental consequences of development activities, with emphasis on tropical countries. Changing environmental conditions are explored in a number of specific contexts: urban, agricultural, semi-arid, wetland and mountainous systems. Environmental constraints on development have been significant in almost all regions, but increasingly, it is the influences of development on the global environment which are of concern. These include: species extinction, loss of agriculturally productive land, declining water quality, deteriorating access to energy and climate change. In addition, as settlement of marginal lands continues, human welfare is more and more threatened by "natural" hazards, such as earthquakes, floods, droughts and other events such as El Nino.

Two hours of lecture per week and a one two-hour tutorial per week.

Prerequisite: EESA0H

IDS03H International Health Policy Analysis

Introduces health policy analysis in developing countries, drawing comparisons to the industrialized countries. The course examines trends in the financing and provision of health care, and discusses some of the factors that influence health care versus curative care, private versus public provision, and issues of equity and efficiency. Case studies of different models of health care will be examined (for example Chile, China, Canada). Participants will also obtain experience in some practical tasks of health policy analysis, such as cost-benefit and cost-effectiveness analysis.

Two hours of lecture per week.

Prerequisite: 5.0 F.C.E.

IDS04H Project Management

A study of the phases of the project management cycle with emphasis on situational analysis and identification of needs, project implementation, project monitoring and evaluation.

Project management will be considered in the context of the mission and Program activities of international development agencies. Students will be familiarized with the organizational development theory and the various approaches of Canadian Non Governmental Organizations (NGO's) in the delivery of development assistance. The integration of gender and development and environmental issues into the project process will be discussed.

CIDA's policies and practices governing project administration as well as its project management, will be examined. Students will carry out field visits to local development NGOs to analyze the project approach used by the agency. Practising professionals will also be invited to talk about development issues and project management.

This course meets twice a week and a one hour tutorial per week.

Prerequisite: IDS01H & IDS02H

IDS05H The Ethics of Development

An examination of the theoretical foundations of ethics of development, particularly the ethics of aid and international. The course will consider the ethical dimensions and implications of dominant modes of development including the policies and practice of major international institutions, national governments, and independent NGOs. The class will be designed to evaluate the ethical dimensions of specific development projects and policies, and guest lectures by individuals directly involved in the aid and development industries will be

used to supplement and complement regular lectures and tutorials.

Three hours of lecture per week and a one hour tutorial per week.

Prerequisites: IDS01H & IDS02H or AMNT07Y or PHL01H or PHL02H

IDS06H Directed Research on Canadian Institutions and International Development

Introduces students to the role of Canadian institutions (both non-government organizations and private agencies) working in international development. Students taking this course will arrange, in consultation with the instructor, to work (usually as a volunteer) in a Canadian institution. They will write a major research paper related to some aspect of their experience. The course will use and apply some of the techniques and skills taught in IDS04H. Students must obtain consent from the Supervisor of Studies before registering for this course.

Prerequisite: IDS01H & IDS02H & permission of the instructor

Corequisite: IDS05H recommended

IDS11H Topics in International Health Policy

Contents to be determined by instructor.

Enrollment limit: 35

Prerequisite: IDS04H

IDS01Y International Development Studies: Advanced Seminar

Normal enrolment in this course will be made up of IDS students who have completed their work placement. Each student will give at least one seminar dealing with their research project, as well as a written report. The research paper will be the major written requirement for the course, to be submitted no later than mid-March. The course will also include seminars by practising professionals on a variety of development topics.

Prerequisite: Students must have completed the first four years of the IDS Specialist Program or its equivalent and have completed their placement. Also, permission of the instructor is required.

Two hours of lecture per week.

IDS04H and IDS05H Directed Reading

For upper level students whose interests are not covered in one of the other courses normally offered. Courses will normally only be available to fourth-year students in their final year of study at the College. Students must obtain consent from the Supervisor of Studies before registering for this course.

Prerequisites: IDS01H & IDS02H & permission of the instructor.
International Studies
(B.A.)

Faculty List
E.W. Dawson, A.M., (Harvard), Ph.D. (London School of Economics), Professor
S. Martin, B.A., (Cambridge), M.A., Ph.D. (Harvard), Professor
A. Kuhn, B.A. (McGill), M.A., Ph.D. (Chicago), Professor
S. Solomon, B.A. (McGill), M.A., Ph.D. (Columbia), Professor
J. Tachjian, B.A., M.A., Ph.D. (Toronto), Professor
P. Kingon, B.A., Ph.D. (Toronto), D.Phil. (Oxford), Associate Professor
S.J. Rocker, M.A., Ph.D. (Toronto), Assistant Professor

Discipline Representative/Supervisor of Students: S. Horner (416-287-7287)
E-mail: horner@chass.utoronto.ca

International Studies is an increasingly affected by international forces, including international institutions, trade, financial flows and communications. Since Canada is a country of recent immigration, many Canadians still retain ties to their country of origin. This program helps prepare students for working and for undertaking graduate study in an increasingly international environment.

The International Studies curriculum contains courses from political science, history, languages, economics and geography, as well as courses dealing with media/communications technology and regional studies. The International Studies Program complements well a major in these listed disciplines. Students can opt to enrol in the Major Program in International Studies, or apply for the limited enrolment Co-op Program in International Studies.

MAJOR PROGRAM IN INTERNATIONAL STUDIES

The Program requires the completion of 8F.C.E., as follows:

ECMASTY Introductory Economics for International Students
POLSB 1 International Relations
ISTB31 International Studies and International Communications
ISTB51 International Development Studies
ISTD0H Project Management

ISTB51 Project Management II
ISTB52 International Development Studies
ISTD0H Project Management II

ISTD0H Project Management II

ISTD10H Readings in International Studies

Journalism
(B.A.)

Specialist (Collaborative) Program in Journalism
Supervisor: K. McClure (416-287-7163)

This program is offered in collaboration with the Centre for Creative Communications at Centennial College. The program may be taken as part of completion of the requirements of a four-year (30-course) Honours B.A. Degree. In addition to completing the requirements for the degree,
students have the option of qualifying for a diploma from Centennial College by undertaking one additional semester in a field placement and completing a short non-credit course on journalism career management at Centennial.

Program Admission Requirements
Limited enrolment. Applicants must fill out a collaborative program application form and request the program via RSOL. Applicants must also pass Centennial’s screening process (satisfactory completion of a series of writing exercises, interview at an information session, and an interview). Applicants may arrange to take the test during the first year of their studies at the University of Toronto at Scarborough.

Program Requirements
(a) [International Perspective] I F.C.E. from:
HIS303Y The Twentieth Century World
POLB23Y International Relations
ENG118H Contemporary Literature from the Caribbean
ENG118H Contemporary Literature from Africa
ENG119H Contemporary Literature from South Asia
FREB23H The Francophone World
FREB33H Cultural Identity and Stereotypes in the French-Speaking World
IDS401H International Development Studies: Poverty
IDS402H International Development Studies: Development and Environment
IDS404H International Health Policy Analysis
(b) [Canadian Perspective] I F.C.E. from:
BCMA457Y Introduction to Economics
ENG107Y Canadian Literature
HIS304Y Canadian History
POLB23Y Canadian Politics
ENG207H Canadian Literature
ENG215H Canadian Short Story
FREB23H Literature of French Canada: 1800-1950
FREB301H Literature of French Canada 1: To 1950
FREB302H Literature of French Canada 2: After 1950
HISC458H Immigrants and Race
HISC462H Relations in Canadian History
POLS51H Critical Issues of Canadian Democracy
POLS52H Leaving Home: Politics and Emigration
(c) [Environmental Perspective] I F.C.E. from:
GGR401Y Global Processes and Environment
BGY401Y Introductory Biology
EEAS101H Introduction to Environmental Science
EEAS102H Environmental Hazards
EEAS103H Water
EEAS104H Introduction to Planet Earth
(d) [Media and Society Perspective] I F.C.E. from:
ENG105Y What is Culture?
ENGCS5Y Literature and Media
INTB101Y International Studies and International Communications
POLB24Y Political and Social Theory of Contemporary Society
SOCB34Y Sociology of Mass Media and Communications
IDS409H Development Studies and the Media
PHIL301H Social Issues
PHIL302H Business Ethics
VPAB505H Introduction to Contemporary Cultural Theory
VPAB506H Cultural Pluralism and the Arts
WSTB13H Women and the Media
(e) Courses that satisfy the requirements of one Major or two Minor Programs, which may include courses used to satisfy requirements (a) through (d) above.
(f) JOU401H Journalism Senior Project

(a) At least 2.0 C. or D.-level, which may include any C- or D-level course used to satisfy requirements (a) through (e) above.
(b) Journalism Group 1 – These courses are taken at Centennial College. Students will be eligible to enroll in them after successfully completing at least 10 F.C.E. at University of Toronto at Scarborough, including at least three of requirements (a) through (d) above. This group of courses should usually be taken concurrently.
JOU404H Journalism Law & Ethics
JOU511J Newspaper Reporting
JOU514H Page Design
JOU519H Imaging, Journalism

JOU508H Advanced Interview Techniques
This course introduces students to the skills necessary to improve their interviewing techniques. Students will learn how to conduct interviews, prepare questions, and then analyze the results. This course is offered in the fall and spring semesters.

JOU509H Advanced Copy Editing
This course builds on the skills learned in JOU504H, focusing on advanced copy editing techniques. Students will learn how to effectively edit and proofread copy, and will have the opportunity to work with professional editors.

JOU510H Advanced Journalism
This course explores advanced journalism topics and techniques. Students will learn how to conduct in-depth reporting, write feature articles, and produce multimedia content.

JOU511J Newspaper Reporting
This course provides students with the skills necessary to become effective newspaper reporters. Students will learn how to conduct interviews, write articles, and produce multimedia content.

JOU514H Page Design
This course introduces students to the principles of page design and layout. Students will learn how to create visually appealing and effective page designs.

JOU519H Imaging, Journalism
This course focuses on the use of imaging software in journalism. Students will learn how to create and manipulate images for use in news stories.

JOU520H Advanced Interview Techniques
This course aims to improve students' interviewing skills. Students will learn how to ask questions, conduct interviews, and analyze the results.

JOU521H Advanced Copy Editing
This course focuses on advanced copy editing techniques. Students will learn how to edit and proofread copy effectively.

JOU522H Advanced Journalism
This course covers advanced journalism topics and techniques. Students will learn how to conduct in-depth reporting, write feature articles, and produce multimedia content.

JOU523H Newspaper Reporting
This course explores advanced newspaper reporting techniques. Students will learn how to conduct interviews, write articles, and produce multimedia content.

JOU524H Page Design
This course introduces students to the principles of page design and layout. Students will learn how to create visually appealing and effective page designs.

JOU525H Imaging, Journalism
This course focuses on the use of imaging software in journalism. Students will learn how to create and manipulate images for use in news stories.

JOU526H Advanced Interview Techniques
This course aims to improve students' interviewing skills. Students will learn how to ask questions, conduct interviews, and analyze the results.

JOU527H Advanced Copy Editing
This course focuses on advanced copy editing techniques. Students will learn how to edit and proofread copy effectively.

JOU528H Advanced Journalism
This course covers advanced journalism topics and techniques. Students will learn how to conduct in-depth reporting, write feature articles, and produce multimedia content.

JOU529H Newspaper Reporting
This course explores advanced newspaper reporting techniques. Students will learn how to conduct interviews, write articles, and produce multimedia content.

JOU530H Page Design
This course introduces students to the principles of page design and layout. Students will learn how to create visually appealing and effective page designs.

JOU531H Imaging, Journalism
This course focuses on the use of imaging software in journalism. Students will learn how to create and manipulate images for use in news stories.

JOU532H Advanced Interview Techniques
This course aims to improve students' interviewing skills. Students will learn how to ask questions, conduct interviews, and analyze the results.

JOU533H Advanced Copy Editing
This course focuses on advanced copy editing techniques. Students will learn how to edit and proofread copy effectively.

JOU534H Advanced Journalism
This course covers advanced journalism topics and techniques. Students will learn how to conduct in-depth reporting, write feature articles, and produce multimedia content.

JOU535H Newspaper Reporting
This course explores advanced newspaper reporting techniques. Students will learn how to conduct interviews, write articles, and produce multimedia content.

JOU536H Page Design
This course introduces students to the principles of page design and layout. Students will learn how to create visually appealing and effective page designs.

JOU537H Imaging, Journalism
This course focuses on the use of imaging software in journalism. Students will learn how to create and manipulate images for use in news stories.

JOU538H Advanced Interview Techniques
This course aims to improve students' interviewing skills. Students will learn how to ask questions, conduct interviews, and analyze the results.

JOU539H Advanced Copy Editing
This course focuses on advanced copy editing techniques. Students will learn how to edit and proofread copy effectively.

JOU540H Advanced Journalism
This course covers advanced journalism topics and techniques. Students will learn how to conduct in-depth reporting, write feature articles, and produce multimedia content.

JOU541H Newspaper Reporting
This course explores advanced newspaper reporting techniques. Students will learn how to conduct interviews, write articles, and produce multimedia content.

JOU542H Page Design
This course introduces students to the principles of page design and layout. Students will learn how to create visually appealing and effective page designs.

JOU543H Imaging, Journalism
This course focuses on the use of imaging software in journalism. Students will learn how to create and manipulate images for use in news stories.

Journalism 119
Photography, and Electronic Production.

Students are granted on their contribution to each issue. The course is taught on the Centennial Campus.

Prerequisites: 12 F.C.E. including
JOUI46H, JOUI11H, JOUI14H, JOUI18H; this course is limited to students enrolled in the Collaborative Program in Journalism. Co-requisites: JOUI30H, JOUI35H, JOUI36H, JOUI41H

JOUI11H News Reporting

This course assists students to develop a basic proficiency level in journalistic reporting and writing techniques. Starting with a simple news story and proceeding to feature and profile writing and coverage of municipal affairs, students develop journalistic writing and reporting skills through continual practice. Class discussions focus on critical analysis of professional publications. Students also undertake research on the Internet. Professional journalists visit classes to discuss their jobs and current issues in journalism. This course is taught on the Centennial Campus.

Prerequisites: 12 F.C.E.; this course is only open to students registered in the Collaborative Program in Journalism. Co-requisites: JOUI46H, JOUI14H, JOUI11H

JOUI14H Page Design

This course provides a basic introduction to layout and desktop publishing. The course aims to help students develop the skills they need for the workplace.

The course is divided into two main units: preparing the dummy sheet and designing pages using QuarkXPress. The first six sessions examine the use of QuarkXPress, analyzing their layout philosophy, and discover the tools they use in preparing their products. Students also practice producing page "dummies" - precise mockups, in miniature, of finished pages. Students design to write headlines which fit and which say something.

Students also gain expertise in desktop publishing, putting together a variety of pages using QuarkXPress. The course prepares students for experience on the in-house newspaper, The Observer. Students experiment with a variety of layouts including broadsheet and tabloid formats. This course is taught on the Centennial Campus.

Prerequisite: 10 F.C.E.; this course is only open to students registered in the Collaborative Program in Journalism.

Co-requisites: JOUI46H, JOUI11H, JOUI14H, JOUI18H

JOUI17H Languages and Linguistics (B.A.)

French (B.A.)

Faculty List

C. Bertrand-Saint-Paul, L.L., M. (Paris), Ph.D. (Wayne State), Professor Emerita
L.B. Poirier, B.A. (Laval), Ph.D. (Brown), Professor Emeritus
P.R. Littell, M.A., Ph.D. (Cornell), Professor Emeritus
C.P. Kozakiewicz, M.A., Ph.D. (Toronto), Professor Emeritus
R.J. Isern, M.A., M.A. (Grenoble), Ph.D. (Chicago), Professor
R. Smith, B.A., M.Litt, (Bristol), M.A. (Michigan), Professor
E.A. Cowper, B.A. (McGill), M.A. (Brown), Associate Professor
D.M. Janes, B.A. (UBC), M.A. (Toronto), Ph.D. (Strasbouruge), Associate Professor
J. Nadyrhyf, M.A., Ph.D. (Montreal- UQAM), Associate Professor
R. Smyth, B.A. (Carleton), M.Sc., Ph.D. (Alberta), Associate Professor
H. Himms-Parnicka, M.A., Ph.D. (Toronto), Assistant Professor
K. McCordie, M.A., Ph.D. (Toronto), Assistant Professor
P. Sobier, M.A., Ph.D. (Toronto), Assistant Professor
D. Magnus, M.A., M.A. (Lyon), Ph.D. (Grenoble), Senior Lecturer

Discipline Representative: R. Smyth

(416-287-7154)

The Languages and Linguistics division encompasses degree programs in both French (FRL) and Linguistics (LIN), as well as certain language courses (LGG) which are not associated with a specific degree. There is also a Specialist Program in Management and French. The LGG courses currently include English as a Second Language (formerly HUM 401 course), French as a Second Language, Mandarin, and Spanish.

Registration in all language courses (all courses with the prefix LGG and language practice and conversation courses with the prefix FRL) is subject to the approval of the instructor. Students will be assessed, in a manner to be determined by the instructor, at the beginning of the course. Students whose level of proficiency in the language is deemed inappropriate for the level of the course will be removed from the course.

The following programs are offered at University of Toronto at Scarborough: a Minor Program in French; a Minor Program for francophone students; a Major in French with four streams (French Studies, International French Studies, French and Business, and French and the Arts); a Joint Specialization Program in Management and Language (see Management) and the Specialist Program: Education of Teachers in French. The Specialist Program in French, the Major Program in French Language and Literature and the Major Program in French Language are no longer offered. Students already enrolled in one of these programs will be able to complete it; please consult the Supervisors of Studies for further information.

French studies normally begin with FRDA10, Language Practice I, which serves to consolidate previous knowledge, and is the prerequisite for more advanced courses in all areas. FRDA10 is designed primarily for students with OAC French or equivalent competence. Students have significant "immersion" or "enriched" high school experience, or who have native or near-native abilities in French, should consult the
Students may apply to the Program directly from secondary school. When applying, they must indicate their special code in French language. They must also indicate the specific code for Scarborough program on the Application Form To An Ontario University. Once the University of Toronto is notified of the application, candidates are sent information on how to download the supplementary application from our website; the supplementary application will require them to explain in approximately 200 words their French why they are interested in the UTFP. UTSC, UOIT and transfer students may also apply to the program after first year of study. Consideration is given to overall achievement (G.P.A.) of at least 7.5 in at least 4.0 F.C.E.s is a minimum level and achievement in French course.

To remain in the program, students must maintain a minimum average of 7.5. Students who successfully complete this Program and who meet the admission requirements of the University of Toronto at Scarborough will be admitted to UTSC. Up to 20 students will be selected for this Program every year.

Several baccalaureate are available for study in France or Quebec. Students in this Specialist Program 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: FREN10Y, FREN10Y and FREN11Y (except where substitution of other French core courses is permitted for students with fourth year specialization in professional French),

2. Two full-course equivalents selected from the following: FREN241H, FREN275H, FREN324H, FREN341H, FREN371H

3. One full-course equivalent selected from the following: FREN232H, FRMB371H, FREN382H

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 (FREN10Y can fulfill this requirement), one full-course in French literature from other parts of the French-speaking world excluding France and Canada. Note: Frrench courses taught in English cannot count towards this requirement.

5. FREN211H and FREN211H. (FREN211H ideally should be taken in second year to avoid time constraints which might prevent the student from getting the full course equivalents of the course.)

(All these courses are described in detail below.)

### B. Ten further full-course equivalents:

Students are advised to choose courses to suit the teaching Program and the teaching subjects in which they are interested. Information and advice will be available through the Program Coordinator at Scarborough and through counselling at the Program Coordinator at Scarborough and through counselling at the Ontario Institute for Studies in Education/University of Toronto (OISE). The following are recommended as general preparation for the Ontario Institute for Studies in Education/University of Toronto (OISE), B.Ed. Program:

- A half-course in educational psychology
- A half-course in language acquisition
- LINB357H and LINB347H are recommended
- A half-course to develop computer skills

### Prerequisite requirement

All Program registrants are required to, 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 the French language teaching methods presented in FREN211 and FREN211Y. University of Toronto at Scarborough, in association with the Ontario Institute for Studies in Education/University of Toronto (OISE), will arrange these practicum placements in local elementary and secondary schools.

### SPECIALIST PROGRAM IN MANAGEMENT AND FRENCH

Registration in this Program is limited. Please refer to the Management section of the Calendar for details.

The Faculty of Humanities Divisions have co-operated to develop a joint Program in Management and French. The Management requirement for this Program is the first requirement for the Specialist in Management. Language requirements consist of five full-course equivalents as follows:

### French:

1. One full-course equivalent from FREN10Y, FREN11Y, FREN211H
2. At least one full-course equivalent from FREN211H, FREN211H, FREN211H
3. At least one full-course from FREN232, FREN232, FREN232, FREN232
4. An additional full-course in French

### Major Programs

See entries under French for the Major Programs.

### Minor Programs

See entries under French for the Minor Program in French.

### MAJOR PROGRAM IN FRENCH

**Supervisor:** S. Mitte

The major program in French provides a simple structure that students can readily manipulate to help them tailor this Flexible program to suit their individual needs. Students must complete seven full-course equivalents in French, including:

1. Two full-course equivalents in language:

   - Language courses are: FREN100H, B17H, B18Y, B44H, B54H, C65H, C66H, C67H, C68H, C69H, C71H

   - One full-course equivalent in literature and/or culture:


   - One full-course equivalent in culture and/or language:


   - Three additional full-course equivalents in French.

Students may create a "classic" major in French Studies with a language and literature focus by including FREN10Y and one and one half other full-course equivalents in literature in their program.

Those wanting a major with a business focus should include one full-course equivalent from (FREN10Y, FREN200H), and one and one half F.C.E.'s in Business or Economics.

These wanting a major with a business focus should include one full-course equivalent from (FREN10Y, FREN200H) as well as FREN10Y and FREN11Y and one and one half F.C.E.'s in Business or Economics.

Students wanting a major with international breadth should include one full-course equivalent from (FREN10Y, FREN200H) as well as FREN10Y or FREN200H as well as one full-course equivalent in French major French Canadian and/or francophone literature (FREN10Y or FREN200H can serve this purpose) and one and one half F.C.E.'s in each of French, French Canadian and other francophone cultures.

Those wanting a major with arts and culture breadth should include two full-course equivalents in literature and culture, in addition to the course(s) used to fulfill requirement (3) of the major. Consult the Supervisor of Studies.

All full-course equivalents for which the student does assignments in French can be counted towards a French Program; at the A level, only FREN10Y and FREN11Y may be counted.

Those wanting a major English for the Minor Program in French must complete a major in any of these streams (French Studies, French and...
Business, International French Studies, French and the Art(s) with a letter explaining their program. Such a letter would be helpful when applying for a job or for admission to a post-B.A. Program. Students interested in graduate studies in French however, should be aware that they will probably need further course work in French.

MINOR PROGRAM IN FRENCH
Supervisor: S. Millet
Students should complete four full-course equivalents including: FRE1A0Y, FRE1B0Y and two further full-course equivalents in French. At least one F.C.E. must be at the C-level.

MINOR PROGRAM IN FRENCH FOR FRANCOPHONES
Supervisor: S. Millet
Students in this Program must complete at least four full-course equivalents at the B- and C-levels, excluding FREB170 and FREB171. At least one F.C.E. must be at the C-level.

NOTE: For co-op opportunities related to the Major Program in French, please see the Calendar entry for the Humanities Co-operative Program, page 108.

FRE1A0Y 3 Language Practice I
Kesdevelopment and development of the language skills—listening, reading, writing, and speaking—necessary for upper-level courses. The course consists of a grammar review with written and oral exercises, reading and discussion of a variety of tests representing different Francophone cultures and various exercises class instructor may choose to devise. The class meets three times a week and, in addition, will do a fourth hour of speaking and listening with recorded materials. This course is a prerequisite for all B-level courses in the French discipline at University of Toronto at Scarborough. (FRE1A0Y is also a prerequisite for FREB35, FREB36, FREB38 and FREB39 for students enrolled in a French Program.)
Exclusion: Native or near-native proficiency in French; FSL1F0Y, FSL1F1Y, or equivalent. Prerequisite: OAC French or Grade 13 French or equivalent. P. Roberts and Staff

FRE1B0Y 3 Conversation I
Develops and reinforces the spoken language skills. Through discussion groups, interviews, role-playing and other controlled situational oral work, students will be familiarized with elements of vocabulary, syntax and grammar fundamental to oral communication. Topics of conversation will focus on contemporary and daily life. Part of the course is devoted to the development of pronunciation and listening comprehension. Participants will be encouraged to use methods of self-help wherever possible. FRE1B170 is a companion course to FRE1A0Y but may be taken alone. Exclusion: Native or near-native proficiency; FSL1F1Y, FSL1F0Y or equivalents; FREB10Y, FREB171, FREC10Y, FREB170, FRE1B170. Prerequisite: OAC French or Grade 13 or equivalent. S. Millet

FREB180 3 Practical Translation
Translates texts from English into French, business, public relations, law, and science and technology. The translation process will be familiarized and the various tools of language and style of expression. Time class is devoted to increasing the student's proficiency, based on the various methods of differences between French and English.
Exclusion: FTR410, FTR480, FTR481. Prerequisite: FRE1A0Y or equivalent F. Magnier

FREB193 3 Language Practice II
A continuation of FRE1A0Y. This course is concerned with the development of fluency, accuracy of expression, and style, through the study of grammar, composition, oral/verbal practice, and readings. Course work can be supplemented by audio and videotapes. Exclusion: (FREB180), native proficiency in French; FSL2F1Y, FSL2F2Y. Prerequisite: FRE1A0Y or equivalent K. McCrohan/F. Magnier

FREB1113 French Language Learning in the School System
This course is offered by the Ontario Institute for Studies in Education at the University of Toronto in conjunction with the Division of Humanities, University of Toronto at Scarborough, and is intended for students considering a career in French language teaching. It involves a series of seminars conducted in French as well as preparation for practical work which will take place in local public and secondary schools throughout the duration of the course. This course should be taken in the second semester of the first year. Prerequisite: FRE1A0Y or equivalent T.B.A.

FREB170 3 Conversation II
Intensive practice in the spoken language through controlled situational oral work and discussion groups. Attention will be given to the comprehension of such major regional varieties as those found in the province of Quebec. As many opportunities as possible will be provided to practice the language and to develop a mastery of relevant vocabulary to that students may acquire a reasonable degree of confidence when speaking about everyday life and contemporary topics. Enrolment Limit: 30
Exclusion: FSL281
Prerequisite: FRE1A0Y or equivalent S. Millet
Credit for FREB170 is also available in the summer under Study Elsewhere.

FREB206H 3 The Society and Culture of French Canada
A study of the historical, social and cultural development of French Canadian society, from its origins to the present. Lectures will focus on factors which provide the necessary background for an understanding of contemporary French Canadian society. Special attention will be given to the "Résolution maquisiste," the creative output of the 1960's and 1970's as well as issues relating to linguistic and cultural survival, including language policies. Prerequisite: FRE1A0Y or equivalent P. Roberts

FREB206H 3 The Literature of French Canada II: To 1960
Reprsentative novels, plays and poetry to 1960.
Exclusion: 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 context in which literature has evolved in French Canada. Exclusion: FREB380, FREB395, FREB210, FREB211. Prerequisite: FREB206. Corequisite: FREB350 or FREB395 (3.0 A.A.D.) or permission of the instructor P. Roberts

FREB270 3 The Literature of French Canada II: Since 1960
Representative novels, plays and poetry since 1960.
Exclusion: 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 will be paid to the political and social context in which recent literature has evolved.
Exclusions: FREB380, FREB395, FREB211. Prerequisite: FREB206. Corequisite: FREB350 or FREB395 (3.0 A.A.D.) or permission of the instructor P. Roberts

FREB4B0H 3 Introduction to Latin America: French Phonetics and Phonology
An examination of the sound system of modern French using speech samples of diverse regional and socio-economic groups throughout the francophone world.

FREB4B0H 3 Introduction to Latin America: French Phonetics and Phonology
An examination of the sound system of modern French using speech samples of diverse regional and socio-economic groups throughout the francophone world.

The course will acquaint students with the phonetic features and the basic concepts and features of the French phonetic system. Phonological interpretation of phonetic data will be discussed. Phonic features such as stress and intonation will be examined in their various functions. Some classes will be conducted in the language laboratory located in Bader Library. This course is a complement to FREB450H. Exclusions: FREB206, FREB210, FREB211. Prerequisite: FREB206. P. Roberts

FREB4B0H 3 Introduction to Latin America: French Morphology and Syntax
An examination of the morphology and syntactic structure of modern French.

In comparison with English, we will study how French words are formed as well as the constituents parts of sentences both simple and complex. Reference to recent literature such as agreement, subordination, co-ordination and coordination will also be studied. This course is a complement to FREB440H. Exclusion: FREB206, FREB210. Prerequisite: FREB206. J. Malan

FREB4B0Y 3 Introduction to Literature in French
A study of representative works from major periods and aspects of the evolution of the francophone world.

FREB500Y will introduce students to the thoughtful reading of literary texts in French. Students will be encouraged to acquire the basic vocabulary and techniques necessary to analyze literature in the three genres and to develop their essay-writing skills in French. This course is recommended both for students interested in future courses 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.
FREN115H Teaching French as a Second Language
A study of current theories of language teaching and learning and their application to the teaching of French as a second language. Topics include communicative competence, traditional and innovative approaches, and methods of teaching materials.
Exclusion: FREN488
Prerequisite or Co-requisite: FREN10Y or permission of the instructor F. Magner

FREN148H French Syntax
A study of various aspects of the structure of French sentences, in comparison with English and other non-related languages. Attention will be paid to distinctive grammatical features that pose problems when teaching or learning French as a second language. Topics such as the following will be studied: the basic grammatical patterns of French, and why the basic sentence patterns are transformed, and the grammatical constraints on such transformations.
Exclusion: FREN378
Prerequisite: FREN10Y J. Nalette

FREN149H Sociolinguistics of French
An exploration of the relationship between language and society within a francophone context. Through the analysis of data from Canadian French and other varieties of the French language, theoretical notions are developed. We examine how language use is influenced by social factors such as socio-economic status, typology of situations and gender of speaker. Other topics include dialect, ethnicity, language in contact, language shifts, social codes, and pidgin creole languages.
Exclusion: FREN479
Prerequisite: FREN10Y or permission of the instructor S. Minder K. McCrimble

FREN191H Language Practice III
The purpose of the course is to improve the student’s written, oral and listening skills. The course will focus on acquiring the appropriate means of expression through practice in text summaries, compositions, essay analysis, review of specific grammar points and discussion of recorded materials, articles and films.
Exclusion: FREN161Y, FSL326, FSL328, FREN301H, FREN302H, FREN303H FREN304H FREN305H FREN306H
Prerequisite: FREN10Y or equivalent F. Magner

FREN203H Supervised Reading
These courses offer to the student as opportunity to carry out independent study of an advanced and intensive kind, under the direction of a faculty member. Student and instructor work out in consultation the course’s objectives, content, bibliography, and methods of approach. The material student should bear a clear relation to the student’s previous work, and should differ significantly in content and/or concentration from topics offered in regular courses. In applying to a faculty supervisor, students are to be prepared to present a brief written statement of the topic they wish to explore. Final approval of the project rests with the French Discipline. Students are advised that they must obtain consent from the supervising instructor before registering for these courses. Insurered students should contact the Discipline Representative or Supervisor of Studies for guidance.
Prerequisite: One B-level course in the group FREN10H (FREN11H), except FREN17 & FREN18
Offered every year

COURSES NOT OFFERED 2002/2003
FREN219Y3 Commercial French
Exclusion: FSL366
Prerequisite: FREN10Y or permission of the instructor FREN200H Teaching Children’s Literature in French
Exclusion: FREN10Y or equivalent FREN287H3 20th Century France
Exclusion: FREN231
Prerequisite: FREN10Y or equivalent, or permission of the instructor

FREN288H The Francophone World
Exclusion: FREN252, 253
Prerequisite: FREN10Y or equivalent or permission of the instructor

FREN289H Frenchophone Literature
Exclusion: FREN452
Prerequisite: FREN10Y or equivalent
Co-requisite: FREN405 or (FREN301H)

FREN386H Introduction to 19th-Century French Literature
Exclusions: FREN326, 328, 329
Prerequisite: FREN10Y or equivalent
Post- or Co-requisite: FREN305Y (FREN308/309 or FREN328H) or permission of the instructor

Translation for Business and Professional Needs
Exclusion: FREN489, FREN491
Prerequisite: FREN10Y or equivalent FREN300H
Prerequisite: One B-level course in the group FREN10H (FREN11H), except FREN17, FREN18

The Literature of French Canada III: Special Topics
Exclusion: FREN348 or (FREN525) or permission of the instructor

Special Topics in French Linguistics: French Creole Languages
Prerequisite: FREN10Y

Topics in French Literature: The Fauvists, The Unreal and The Marvelous in Nineteenth Century Fiction
Prerequisite: FREN10Y or equivalent or permission of the instructor

Aspects of Folklore, Myth and the Fantastic in the French-Speaking World
Prerequisite: FREN10Y or equivalent for students enrolled in French Programs or two full B-level courses, or permission of the instructor

Languages and Linguistics (B.A.)

Faculty List
R.J. Blinick, B.A. (CUNY), M.A., Ph.D.
E. A. Cowper, B.A. (McGill), A.M., Ph.D.
D.M. Jones, B.A. (U.B.C.), M.A. (Cornwall), Ph.D. (Michigan), Associate Professor
R. Smyth, B.A. (Carleton), M.Sc. (Alberta), Ph.D. (Alberta), Associate Professor
R. Helms-Park, M.A., Ph.D. (Toronto), Assistant Professor

Linguistics is the scientific study of human language. It encompasses theories of linguistic structure in all domains: speech sounds (phonetics and phonology), words (morphology), sentences (syntax), meaning...
NOTE: For Co-op opportunities related to the Specialist Program in Psycholinguistics and the Major Program in Linguistics, please see the Calendar entry for the Humanities Co-operative Program, page 106.

LINA017 General Linguistics: The Theory of Language
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 such as the following will be covered: sound patterns in languages; word formation; sentence structure; meaning; different varieties of language and social attitudes towards them; how languages change; how children learn language; language and the brain.
Exclusion: LIN100Y
R.J. Bisnack

LINB044H3 Practical Language Analysis: Phonology
Analysis of sound patterns in a broad variety of languages.

The aim of the course is to expand students' knowledge of phonology and to strengthen their abilities in practical analysis. Potential solutions to problem sets will be discussed in each class.
Exclusion: LIN100Y, LIN220H
Prerequisite: LINA01Y
T.B.A.

LINB053H3 Practical Language Analysis: Morphology
Analysis of word structure in a broad variety of languages.

The aim of the course is to expand students' knowledge of morphology and to strengthen their abilities in practical analysis. Potential solutions to problem sets will be discussed in each class.
Exclusion: LIN100Y, LIN231H
Prerequisite: LINA01Y
D.M. James

LINB054H3 Practical Language Analysis: Syntax
Analysis of sentence structure in a broad variety of languages.

The aim of the course is to expand students' knowledge of syntax and to strengthen their abilities in practical analysis. Potential solutions to problem sets will be discussed in each class.
Exclusion: LIN100Y, LIN232H
Prerequisite: LINA01Y
T.B.A.
PL602HD Disorders of Speech and Language
Pathologies of language acquisition and comprehension/production. Topics include the anatomy and physiology of the speech and hearing mechanisms, voice disorders (hoarseness, larynx, dysphonia, laryngeal speech), functional articulation disorders, cleft palate, speech, apraxia, dysarthria, language delay, language-learning disabilities, mental retardation, hearing and auditory processing disorders, and the identification of pathologies in speakers of dialects or languages other than that of the clinician. Exclusions: JL547H1
Prerequisite: LIN1A01 and PSY3A01, and PLINC5 or PLIC245 or PSY355 or permission of the instructor. R. Smyth

COURSES NOT OFFERED 2002/2003
LIN1B7H3 The Structure of English Sentences
Exclusion: (LIN1B07, LIN2D02 & LIN3A04)
Prerequisite: LIN1A01

LIN1B9H3 The Structure of English Words
Exclusion: (LIN1B07, LIN2D02 & LIN3A04)
Prerequisite: LIN1A01

LIN2B2H3 Sociolinguistics
Exclusion: JAL254H
Prerequisite: LIN1A01

PLIC24H3 Developmental Psycholinguistics
Exclusion: JLP515H
Prerequisite: One full-course equivalent in LIN and one full-course equivalent in PSY
R. Smyth

LIN3D1H3 LIN3D2H3 LIN3D3H3 LIN3D4H3

LIN3D5H3 Supervised Reading Interested students should contact Professor R. J. Binneck, Supervisor of Studies. The aim of these courses is to allow the advanced student to pursue research in a language not taught at the University of Toronto; this research is normally at a level which is more advanced than other Linguistics courses which the student has already taken, and in an area which is of the student's own choosing. Methods of research and of evaluation are as varied as the possible areas of research. Students are advised that they must obtain consent from the supervising instructor before registering for these courses.

Prerequisite: At least one B-level full-course equivalent in Linguistics; permission of the instructor. Staff

PL603H3 Disorders of Speech and Language
Pathologies of language acquisition and comprehension/production. Topics include the anatomy and physiology of the speech and hearing mechanisms, voice disorders (hoarseness, larynx, dysphonia, laryngeal speech), functional articulation disorders, cleft palate, speech, apraxia, dysarthria, language delay, language-learning disabilities, mental retardation, hearing and auditory processing disorders, and the identification of pathologies in speakers of dialects or languages other than that of the clinician. Exclusions: JL547H1
Prerequisite: LIN1A01 and PSY3A01, and PLINC5 or PLIC245 or PSY355 or permission of the instructor. R. Smyth

ENGLISH FOR ACADEMIC PURPOSES
Co-ordinator: R. Helms-Park (416-287-7142)

LGA107H3 Current Approaches to the Academic Writing Process: A Course for Non-Native Speakers of English
A study of the conventions of academic written discourse. Designed especially for learners of English as a second language, this course shows how principles of exposition and argumentation can be applied to writing in a variety of disciplines. The course highlights the importance of relevant content, coherence, and standard documentation in academic writing of various types, using language that reflects some of the differences between good and poor writing. Students are also introduced to different methods of conducting research, as well as ways of avoiding plagiarism in their writing. Exclusion: LGA109H3 (HUMA107)

LGA111Y3 Introduction to Canadian Culture and Society: A Course for Non-Native Speakers of English
A seminar and lecture course designed to introduce students who speak English as a second language to a study of Canadian culture and society through guest lectures, non-fiction and fiction, with an emphasis on multicultural writings. Topics include: literary and non-literary varieties of Canadian English; Canadian bilingualism; the new culture of technology; multiculturalism as an ideal and as a reality; equity issues. Evaluation is based on individual and team oral presentations, term papers, participation in class discussion, response to guest lectures, and ability to defend and refute arguments in speech and in writing. Limited enrolment: 30
Exclusion: HUMA111Y

LGA112H3 Language and Power: A Course for Non-Native Speakers of English
An examination of the relationship between language and power in society. Students will analyze academic, political, materialist, cross-cultural, and journalistic discourse in order to learn how language is used to establish power relations, to express ideology, and to accomplish a variety of other goals in everyday life. Course materials will be based on various types of real-life spoken and written communication in English, for example, conversations, academic discussions, and newspaper reports. In addition, students will be given the opportunity to strengthen their own academic speaking and writing skills through their own oral presentations, class discussions, and written assignments.
Limited enrolment: 40
Exclusion: HUMA123H
Prerequisite: Permission of the co-ordinator. Application form available at http://celabs.utoronto.ca/EAIP/view.htm Call 416-287-7171 for further details. R. Helms-Park

LGA113H3 Writing Practicum: A Course for Non-Native Speakers of English
A complement to HUMA107Y, this course is designed to provide small groups of students with intensive hands-on practice in identifying the purpose of various writing assignments, choosing appropriate topics, generating, developing and organizing ideas; and producing essays in a variety of styles, for different audiences, using both computer and internet resources. Students will also be given special instruction in editing skills, grammar and mechanical problems. Assignments are to reflect materials and principles studied in LGA109Y. Exclusion: LGA110H6 (HUMA108)
Courses Not Offered 2002/2003

LGC5311Y Advanced Spanish
Exclusion: SPA230
Prerequisites: LGC521H
(SPA201 or SPA203)
Business Spanish
Pre or Co-requisite: LGC517Y (SPA307Y)

LGC5313H Spanish Practical Translation
Exclusion: SPA423Y
Pre or Co-requisite: LGC517Y (SPA307Y)

Management
(B.B.A.)

Faculty List
S. Jethan, B.A. (Harvard), M.P.P. (Kennedy School of Gov't.), Ph.D. (Harvard), Professor
J. Dielandsa, B.A., M.A., Ph.D. (Toronto), Professor
D. Lang, B.A., M.A. (Western), Ph.D. (Toronto), Professor
A. Stark, B.A. (U.B.C.), M.Sc. (London), M.A., Ph.D. (Harvard), Professor
J. Averbuck, M.S., Ph.D. (Moscow Institute of Physics & Technology) Associate Professor
J. Rev, B.C. (Harbin Inst. of Chemical), M.B.A. (York, Canada), Ph.D. (Toronto), Associate Professor
A. Agranowsky, B.A., M.B.A. (India), Ph.D. (Chicago), Assistant Professor
S. Law, B.A. (Canada), B.S. (Western), M.S. (Bucknell), Ph.D. (Toronto), Assistant Professor
M. Loughlin, B.Sc. (Canada), M.A., Ph.D. (Queen's), Assistant Professor
D. McCarthy, B.A., M.A., Ph.D. (Western), Assistant Professor
D. Ziegler, B.A., M.A., Ph.D. (Washington), Assistant Professor
S. Ahmed, B.Com., M.A., M.B.A. (Carroll, M.B.A. (Carroll), Senior Lecturer

Chair: S.P. Burton

The design of the curriculum in Management is guided by our mission statement, which follows:

"The mission of the Division of Management at the University of Toronto at Scarborough is to provide our students with the best pre-professional undergraduate management education in Canada. With special emphasis on our co-op model of education, we aim to provide a coherent set of learning experiences that simultaneously teaches management skills and develops the capacity to think analytically about managerial, economic and societal problems and opportunities. Our faculty will engage in nationally and internationally recognized research which advances the frontiers of knowledge, serves the interests of our community, and brings new insights to our students. We will improve our students' careers and future experiences by building and maintaining close links with public and private sector organizations, by helping students to bridge the gap between education and employment, and by providing a continuing and lively connection among current and former students."
studied at the undergraduate level. Students contemplating graduate study would be well advised to include MGMT42 in their undergraduate Program. They should also consider strengthening their preparation for graduate work by taking courses in such areas as Economics, Mathematics, Computer Science, Sociology, Psychology and Anthropology.

Limited enrolment: Because of pressures of demand for places, it has been necessary to place enrolment limits on most Management courses including those given in the summer session, and on admission to Programs. Information on how to apply for admission to a Program and associated enrolment courses will be available prior to the end of classes in April.

Prerequisites: Students are responsible for ensuring that they have the prerequisites for all Management courses. Students who knowingly or unwittingly register for courses for which they do not have the necessary prerequisites will be denied access to these courses.

Management Programs
There are two Specialist Programs in Management, one with Co-operative options, which are described below.

Notice to Non-Program Students
All B-, C- and D-level Management courses are restricted to students in Management Programs. Management Program students include degree, certificate and non-degree students in Management. There will be no exceptions.

Admissions
Each year a total of 260 students are admitted to the Specialist Programs in Management (including Co-operative study). There are three possible ways to be admitted to the Specialist Programs. (Students interested in Co-op should also refer to additional admission information in the following Co-op Programs section).

1. Directly from Secondary School
Up to 180 students will be admitted directly from high school, on the basis of academic performance. Applicants interested in the Specialist Programs in Management must have completed OAC English I and OAC Calculus.

In the first year, they take the courses required for the Program of their choice, for the following program. In order to remain in the Program the students must maintain a G.P.A. of 1.6 or higher after having attempted at least 4 full-course equivalents and a G.P.A. of 2.0 or higher after having attempted at least 8 full-course equivalents. Co-op students must maintain a cumulative G.P.A. of 2.50 throughout the Program.

2. At the End of First Year
Applicants for the Specialist Programs in Management must have completed (or be in the process of completing) MGMT40, ECMA02 and MATA27 (MATA26 may also be used to satisfy the calculus requirement.) Students who took ECMA03 may be eligible to enter the Management Program once they have completed MATA27.

3. Admission after First Year
Admission of students during second year (that is, until they have completed up to 10 full courses) will also be on the basis of all grades received. Students who have completed more than ten full-courses will not normally be considered for admission to the Programs.

Students applying at the end of first year or during the second year will be considered together for a total of approximately 80 places in the Specialist Programs.

Subject to enrolment limits, a student admitted to any of the Programs will have access to the full range of offerings in the Division. Specific Program requirements are listed below.

Guidelines for Course Selection for First-Year Students in Management Programs
Co-op B.B.A.
MGT402, MGT405, MGT406, ECMA02, CSAC40 and MATA27

B.B.A.
MGT402, ECMA02, MATA27, CISC40 recommended, MGT405 and MGT406 allowed

Taking a course in the Humanities or Social Sciences in first year is recommended.

Guidelines for Course Selection for Students Admitted to Pre-Program
Read the information above with the offer of admission. Must have at least 4 F.C.E.'s to apply to Programs. For B.B.A. admission consideration, enrol in:

MGT402, ECMA02, MATA27, CISC40 recommended but not required to apply to Program

Taking a course in the Humanities or Social Sciences in first year is recommended.

SPECIALIST (CO-OPTATIVE) PROGRAM IN MANAGEMENT
Coordinator: R. B. Neil (438-7112)
E-mail: r.neil@doc.utoronto.ca
Supervisor of Studies: T.B.A.

The Management Co-operative Program is a work-study Program which combines academic studies with work experience in public and private enterprises. Depending on their needs and abilities students work in areas such as accounting, public administration, auditing, communications, economic development, finance, human resources/personnel, information systems, marketing, policy and strategic planning. For information about admissions, fees, work placements and standing in the Program, please see the Calendar section Co-operative Programs: General Information, page 65.

Full Year/Trimester Programming
The Management Co-op Program operates on a trimester schedule, featuring these terms (fall, winter and summer) in each calendar year. Students work or study in all these trimesters for four years or until graduation requirements are met. The Program requires eight four-month terms of study and three work terms. Students normally begin work terms with three to five study terms (fall, winter and summer), then alternate study and work terms, and conclude with a final eight months of study.

Curriculum
Co-op students will follow the core requirements specified in the Specialist in Management Program which is described in this section. In the first two years of study all students follow a common core of required courses refer to the detailed requirements in the Management Program).

Students are advised to consult regularly with the Program Supervisor on course selection and scheduling. It is however the students' individual responsibility to ensure that they have completed the correct courses to make them eligible for each work term and that they have correctly completed Program and degree requirements for graduation.

Work Terms
To compete for a work term a student must be a full-time student, in the Program and must have completed

- for the first work term: seven full-course equivalents, including ECMA02, MGT402, MGT405 and MGT406 and CSAC40 & MATA27, and the Introduction to Management Co-Opted Courses

- for the second work term: nine full-course equivalents

- for the third work term: eleven full-course equivalents

SPECIALIST PROGRAM IN MANAGEMENT (B.B.A.)

This Program is designed to give students a broad exposure to all functional areas of Management as well as a solid grounding in Economics.

The Program requires the completion of the following minimum requirements as part of a twenty-course degree (14 full-course equivalents):

- 5.0 F.C.E.'s of courses describing strategic management, chosen from MGT405, MGT419, MGT425, MGT426, MGT439, MGT441, MGT442, MGT443, MGT445, MGT450, MGT459

- 3.0 F.C.E.'s of C-level Economics for Management Studies course. A C-level Economics for Management Studies course is defined as one that has a B-level prerequisite.

- 3.0 F.C.E.'s (strongly recommended) or MATA26

- CISC40 (students familiar with the material in CISC40 may substitute CISC400)

- Two-and-a-half additional F.C.E.'s (from courses other than MGT401 to, include at least one F.C.E. from courses within the Division of Humanities.

The remaining courses needed to complete the degree requirement of 20 F.C.E.'s can be chosen either within or outside the Division of Management in accordance with the student's interest.

Streams of Study
Students registered in the Specialist in Management Programs have the option of registering in one of the following streams. In order to have their course of study on the chosen stream on the transcript, students will have to complete at least 3.0 F.C.E.'s from a relevant set of courses noted below, in addition to the courses required for completion of the Specialist in Management (B.B.A). In counting courses towards the core requirements and a stream, no course will be counted for more than one requirement. Students may register in only one stream of Management studies.

Management 135

134 Management
**Accounting**


**Economic Data Analysis**

Students must take ECON02H and ECON03H as their C-level ECON options within the B.B.A. Students must also take the following 2 F.C.E.'s within ECON: ECON13H, ECON09H, ECON10H, ECON12H

**Finance**

Two F.C.E.'s from MGTD79H, MGTD78H, ECON44H, ECON49H, ECMA51H, MGTC71H, MGTD71H

**Human Resource Management**

Two F.C.E.'s from MGTC22H, MGTC25H, MGTC26H, MGTC56H, ECMA53H, ECON52H

**International Business**

Two F.C.E.'s from MGTC22H, MGTC25H, MGTC44H, ECMA51H, ECMA52H, ECON56H, ECMA57H

**Marketing Stream**

Two F.C.E.'s from MGTD06H, MGTD07H, MGTD15H, MGTD13H

**Public Management**

Two F.C.E.'s from MGTC42H, MGTC45H, MGTC55H, MGTC56H, MGTC59H, MGTC51H, ECON50H, ECMA61H, MGTC22H, MGTC26H

**Strategic Management**


**Joint Specialist Program in Management and Language (French)**

*Supervisor:* T.B.A.

The Management and Humanities Divisions have cooperated to develop a Joint Program in Management and French. The Management requirements for this Program are the first 5 requirements for the Specialist in Management (see previous page). The sixth requirement is waived.

Students are encouraged to take MGTA02, ECMA02, CSAC02, MATA27 and an appropriate course(s) in French in the first year.

Language requirements consist of five full-course equivalents in French, made up of:

- A: Basic Language
- B: Business Language
- C: Civilization, as follows:

**FRENCH**

A: FREN10, FREN100, FREN10 or equivalent

B: at least one full-course equivalent from FREN10, FREN11, FREN12

C: at least one full-course from FREN22, FREN23, FREN27, FREN28

D: An additional full-course in FREN

**Certificate in Business**

*Supervisor:* T.B.A.

Website: www.ubc.ca/orangeo-ca.-mgnt

The Division of Business also offers a Certificate Program for non-degree students. Non-degree students interested in this Certificate Program should contact the Supervisor.

**Non-Degree Students in Management and Economics Supervisors**

*Supervisor:* T.B.A.

Website: www.ubc.ca/orangeo-ca.-mgnt

Non-degree students may be admitted to take individual courses either as credits towards professional certification (for example in accounting or human resource management) on a part-time basis. Students may take courses if they have fulfilled the prerequisites or have the permission of the Supervisor.

Non-degree students will be admitted to courses only if there is room after regular degree students in Management Programs have been accommodated. Applicants must provide specific information regarding preparation and work experience. To assist in designing individual course selection, the application form will ask about one’s educational objectives. Applicants may begin in either semester of the Fall/Winter Session or Summer Session. Regular applicants deadlines apply, but late applicants may be accommodated if there is space in classes.

**Careers in Accountancy**

The College offers a significant number of courses which have been recognized as essential in the educational training of Chartered Accountants, Certified General Accountants and Certified Management Accountants. Appropriate Co-op work terms with designated CA, firms will be recognized by the Institute of Chartered Accountants of Ontario as part of their internship requirement. Brochures describing the various Programs and listing the recognized University of Toronto at Scarborough courses are available from the Career Centre (416-287-7561).

**MGTA02Y Introduction to Management**

Introduction to the process of management (planning, organizing, controlling, and directing), the functional components of profit and nonprofit organizations (accounting, finance, marketing, personnel, etc.), and the organization's role within a broader context, including ethical and societal considerations. This course should be taken before any other MGFT courses. One two-hour lecture per week.

Exclusions: Any other MGFT course (except 805 & 806 by students in Programs)

**MGTD09H Management Accounting**

An introduction to management and cost accounting with an emphasis on the use of accounting information in managerial decision-making. Topics include patterns of cost behaviour, transfer pricing, budgeting and control systems.

Enrollment is limited to students registered in Programs requiring this course. Two hours of lecture per week.

Exclusions: MGTD12H, MGTD23H & MAGT22H

**MGTD10H Financial Accounting I**

Together with MGTD06H, this course provides a rigorous introduction to accounting techniques and to the principles and concepts underlying these techniques. The development of double entry theory, and practice, the accounting cycle, problems of income measurement, and the preparation of financial statements are addressed from the point of view of both preparers and users of financial information. The syllabus is limited to students registered in Programs requiring this course. Two hours of lecture per week.

Exclusions: (MGTD02Y), (MGTD12H) & (MGTD10H)

**MGTD11H Financial Accounting II**

This course is a continuation of MGTD06H and builds on material covered in that course. Coverage in this course will assume a knowledge of the material taught in MGTD06H. Students are therefore encouraged to take MGTD06H immediately after completing MGTD05B. Technical topics include partnerships, corporations, cash flows, analysis and others. Choice of treatment and disclosure are discussed, and the development of professional judgement is encouraged. Enrollment is limited to students registered in Programs requiring this course. Two hours of lecture per week.

Exclusions: (MGTD02Y), (MGTD12H), (MGTD22H) & VPA13

Prerequisite: MGTD06H

**MGTD22H Managing People in Organizations**

An introduction to micro-organizational behaviour theories from both conceptual and applied perspectives. Students will examine a variety of theories and concepts to help them develop an understanding of the behavior of individuals and groups in all types of organizational settings. Topics covered include: Individual differences, motivation and job design; work attitudes, decision making and leadership. Enrollment is limited to students registered in programs requiring this course.

Two hours of lecture per week.

Exclusion: MGTD23H

Prerequisite: MGTA02Y

**MGTRG5H Managing Groups and Organizations**

A course related to the practical and theoretical aspects of macro-organizational behavior.

**Organizations** are in integral part of our everyday lives, yet the average person understands very little about how organizations function. This course is about how organizations work, and how we can change them to make them work for us. Building on concepts and skills from MGTD05B, students will be introduced to theoretical and practical aspects of macro-organizational levels of behavior that tackle management issues at group and organizational levels of analysis. Topics covered include: organizational design, culture, and innovation, power and politics, and group dynamics and intergroup relations.

Enrollment is limited to students registered in programs requiring this course.

Two hours of lecture per week.

Prerequisite: MGTA02Y

MGTD22H may also be taken as a co-requisite.
Management

MGT293H5 Principles of Finance
An introduction to basic concepts and analytical tools in financial management. Building on the fundamental concept of time value of money, the course will examine stock and bond valuations and capital budgeting under uncertainty. Also covered are such topics as risk-return trade-off, financial planning and forecasting, and long-term financing decisions. Enrolment is limited to students registered in Programs requiring this course.

Two hours of lecture per week.
Limited enrolment: 60
Exclusions: MGT331Y, MGT373Y
Prerequisites: MGT210H or ECON11 (ECON205) & MGT203H

MGT404H3 Principles of Marketing
An introduction to basic concepts and tools of marketing designed to provide students with a conceptual framework for the analysis of marketing problems. The 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. Enrolment is limited to students registered in Programs requiring this course.

Two hours of lecture per week.
Limited enrolment: 60
Exclusions: MGT225H
Prerequisites: MGT202Y

MGT296H5 Intermediate Financial Accounting II
A continuation of MGT207. It continues the students’ development of skills and professional judgment through study of several complex topics. This includes the course, the topics in the course topics and cases and applications are used in the course. Students must complete MGT207 before attempting this course. Two hours of lecture per week and a one hour tutorial per week.
Limited enrolment: 60
Exclusions: MGT224H & MGT224H
Prerequisites: MGT207H
Corequisites: MGT206H (either with this course or with MGT207H)

MGT298H5 Intermediate Financial Accounting II
A sequel to MGT207, this course will continue the coverage of mainstream finance topics. Besides a deeper examination of certain topics already covered in MGT207, the course will investigate additional topics such as the use of financial management, capital investment, capital budgeting, under uncertainty, cost of capital, capital structures, dividend policy, leasing, mergers and acquisitions, and international financial management. Enrolment is limited to students registered in Programs requiring this course.

Two hours of lecture per week.
Limited enrolment: 60
Exclusions: MGT224H & MGT224H
Prerequisites: MGT203H

MGT270H3 Intermediate Financial Accounting I
Together with MGT207, an examination of the framework of theory and practice of financial reporting in Canada. Theoretical and practical accounting and reporting issues are examined. Various topics dealing with measurement and disclosure are covered. The course builds extensively on the material covered in MGT205 & MGT206 (and, to a lesser extent, MGT203). Potential students should review thoroughly the basic accounting material, preparation of financial statements, and accounting principles prior to the start of this course.
Two hours of lectures per week and one hour tutorial per week.
Limited enrolment: 60
Exclusions: MGT207Y, MGT224H & MGT224H
Prerequisites: MGT205H (MGT202Y) & MGT203H
Corequisites: MGT206H (either with this course or with MGT207H)

MGT211H3 Management Information Systems
This course is intended to help students understand the information systems that are a critical component of modern organizations. The course covers the technology, design, and applications of data processing and information systems, with emphasis on managerial judgment and decision making. Two hours of lecture per week.
Limited enrolment: 60
Exclusion: MGT371
Prerequisites: MGT203H & MGT212H & MGT224H
Corequisites: MGT206H

MGT213H5 Canadian Income Taxation I
This is the first of two courses in Canadian income taxation. It is intended 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 and property income, and computation of tax for individuals.
Limited enrolment: 60
Exclusions: MGT213
Prerequisites: Completion of at least ten full course equivalents including MGT205 & MGT210H & MGT207Y & MGT212H

MGT217H3 Canadian Income Taxation II
This course is designed to give the student an understanding of the more complex issues of federal income taxation, including 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
Exclusions: MGT213
Prerequisites: MGT212H

MGT219H3 Introduction to Consulting
Introduces students to consulting as a career option. With the changing nature of employment, students are increasingly likely to find careers involving a series of short-term contracts or project related assignments. The successful manager of the future will not have a "job," but a portfolio of adaptable and transferable skills. The course examines what consultants do, and the reasons organizations engage consultants. The course teaches consulting skills: problem formulation, project specification, proposal writing, contract negotiation, and project management.
One hour lecture per week.
Limited enrolment: 70
Exclusion: MGT207H
Prerequisites: MGT203H & MGT212H & MGT224H

MGT229H4 Human Resource Management
An introduction to current human resource practices in Canada, emphasizing the role of Human Skills as a managerial approach in enhancing performance, productivity and profitability of the organization. Topics include recruitment, selection, training, career planning and development, diversity and human rights issues in the workplace. One two-hour lecture per week and one hour tutorial per week.
Limited Enrolment: 60
Exclusion: MGT440
Prerequisites: MGT232H & MGT232H
Corequisites: MGT232H

MGT229H5 Diversity In the Workplace
Examines the nature and effects of diversity in the workplace. Drawing on theories and research from psychology, the course will examine topics like stereotyping, harassment, discrimination, organizational climate for diversity, conflict resolution within diverse teams, and marketing to a diverse clientele. Students will engage in small group discussions of assigned readings, participate in role-playing exercises and write about their experiences in the exercises.
Limited enrolment: 40
Prerequisites: MGT232H & MGT232H

MGT249H3 Managerial Skills
This course deals with the development of managerial skills. As management students enter today’s complex organizations, they need managerial skills as well as knowledge of the conceptual and technical material covered by their courses. This course provides students with opportunities to develop skills related to the conceptual knowledge addressed in earlier courses. The objective is to improve students’ own personal management competencies in areas such as interpersonal relations, decision making and problem solving, motivating and leading, and teamwork. Enrolment is limited to students registered in programs requiring this course.
Limited enrolment: 40
Two hours of lecture per week.
Prerequisites: MGT225H & MGT224H

MGT231H3 The Legal Environment of Business
An introduction to the Canadian legal system and business organizations. The course includes an examination of the Canadian court structure and a discussion
of the various forms of business ownership, tort law, contract law, and property law. Two hours of lecture per week.

Limited enrollment: 60
Exclusion: MGT359H, MGT393H I and II
Prerequisites: Completion of at least ten full-course equivalents including MGT305 and MGT306 (MGT302Y)

MGT325H The Legal Environment of Business II
This course further examines the issues raised in Legal Environment of Business I. It focuses on relevant areas of law that impact business organizations such as consumer protection legislation and agency and employment law, and it includes a discussion of laws affecting secured transactions and commercial transactions. Two hours of lecture per week.

Exclusion: MGT330Y, MGT394H
Prerequisite: MGT313H

MGT335H Narratives on Management and Organization
Through the analysis of works of fiction and non-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. Two hours of lecture per week.

Limited enrollment: 60
Prerequisites: MGT232H and MGT292H

MGT336H Management Communications
Written and Oral Communication Skills for Managers
Effective and correct communication allows professionals to articulate with confidence their management ideas and expertise. Topics in this course include written and oral communications from e-mail and reports to oral presentations both spontaneous and prepared. Students will learn how to communicate in a well-organized, audience-oriented manner in concert, jargon-free language. Since correct grammar and punctuation are essential to good communication, these skills will be carefully reviewed. Class participation and group interaction will be an essential part of the course.

Two hours of lecture per week.

Limited enrollment: 60
Prerequisites: MGT232H and MGT292H

MGT348H Entrepreneurship
This course focuses on the practical viewpoint, using case methods, on the skills required and traits - personal, financial, sales, operational, personnel - of entrepreneurs as they achieve entrepreneurial success.

One two-hour lecture per week.

Limited enrollment: 60
Exclusion: MGT443H, VFA13
Prerequisite: MGT250Y and MGT292H and (VSCM20Y or ESCM206Y or ESCM207Y)

MGT349H Public Management
An introduction to key public sector management processes - planning, budgeting, human resource management - and to the New Public Management - initiatives being taken throughout the world to make government work better and cost less. Special emphasis on applications of information technology to service delivery and government. Uses case studies, case studies, and simulations to develop management skills in a public sector setting.

Two hours of lecture per week.

Limited enrollment: 60
Prerequisites: MGT232H or POL1850Y

MGT345H International Business Management
This course deals with problems faced by managers of international business, such as development of a global business strategy, location of operations, dealing with local cultures in marketing and human resource management, and negotiations with host governments.

Two hours of lecture per week.

Limited enrollment: 60
Exclusion: MGT349H
Prerequisites: MGT240Y and MGT232H and MGT292H

MGT343H The Changing World of Business - Government Relations
How regulation, privatization and globalization are affecting today's managers.

Most major management issues and business opportunities involve government (domestic or foreign) at some level - whether as legislator, customer, partner, investor, tax-collector, grant-giver, licensor, deal-maker, problem-solver, friend or enemy. Increasingly, the ability to interact with government is becoming part of every manager's portfolio of skills and a specialty for skills. This course provides students with an understanding of the issues and introduces some of the skills necessary to successfully manage a business's relationship with government. Part of the appeal of the course will be its topicality and the use of current materials.

Two hours of lecture per week.

Enrollment limit: 60
Prerequisite: MGT240Y

MGT359H Building Internet Commerce Ventures
This highly interactive hands-on course provides students with a set of theoretical and practical skills necessary to develop an internet commerce enterprise or to assume online transactional delivery of administrative services within the government agency. A limited number of lectures present a new fundamental concept of the Extranet Business Community and describe what it consists of, what makes it different from conventional ways of running a business, and how much it might cost. Proactively cooperating online in small teams, students will be expected to create an original internet Commerce enterprise (business or government). As well, every student will have to write a predefined piece of Business Plan for an internet Commerce or interest Governance enterprise. We will likely involve real venture capitalists or top civil servants in evaluation of final results.

Limited enrollment: 60
Prerequisites: MGT119 or MGT328 or MGT326

MGT351H Business Negotiation
An introduction to the theory and practice of negotiation in business. Almost all business relationships (for example, relationships among managers and relationships with suppliers and customers) require negotiations. This course provides the student with a set of approaches and tactics to use in different forms of negotiation, and an introduction to traditional and emerging procedures for resolving disputes if negotiations break down. To gain practical experience, students will participate in exercises which simulate real-world situations.

Two hours of lecture per week.

Limited enrollment: 60
Exclusion: MGT345Y
Prerequisites: MGT240Y and MGT232H and MGT292H

MGT353H Introduction to Industrial Relations
An overview of the industrial system and process in Canada. The course will introduce students to the historical development of the industrial system, the roles of unions and management, employment law, labour law, the impacts of collective bargaining on the economy and the labour market, grievance arbitration, collective bargaining in the public sector, occupational health
Management

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and safety and workers' compensation, and the history of the Canadian industrial relations system. Students will participate in collective bargaining simulations. Two hours of lecture per week and a one-hour tutorial per week.

Limited enrolment: 40
Exclusion: MGTC54Y
Prerequisite: Completion of at least ten full-course equivalents including ECON101Y or ECOA20Y and ECON202Y.

MGTC605H Planning and Budgeting for Public Institutions

The theory and practice of budgeting and allocating resources in large public institutions. After presenting theories of planning and resource allocation in large public institutions, the course will illustrate them by means of extensive case studies of the challenges currently faced by universities and colleges. Instruction will be a combination of lecture, discussion, and case studies.

Two hours of lecture per week.

Limited enrolment: 20
Prerequisite: MGIB80H

MGTC605H Management Ethics

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 regulators have come to demand -- a sophisticated managerial system. Students will study 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, and product safety. New technologies, pay equity and affirmative action, whistle-blowing, and drug testing for employees.

Two hours of lecture per week.

Limited enrolment: 40
Exclusion: PHIL906
Prerequisite: MGTA02Y

MGTC615H Introduction to Operations Management

Introduces the student to the design and control of problems of systems that transform inputs into outputs, with emphasis on making major strategic, tactical, and operational decisions 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 Programs requiring this course.

Two hours of lecture per week.

Limited enrolment: 60
Exclusion: MGTC72H
Prerequisites: ECON102Y (ECOA20Y) or ECON202Y.

MGTC717H Introduction to Derivatives Markets

An introduction to futures, options and other financial derivative securities. This course will introduce students to the fundamentals of derivatives markets. Detailed descriptions of, and basic valuation techniques for popular derivative securities such as forward/future contracts, options and swaps are provided. As each type of derivative security is introduced, its applications in investments and general risk management will be discussed. Teaching methods include lectures and problem solving.

Limited enrolment: 40
Exclusion: ECMB11H or ECMB101Y or MGIB80H
Co-requisite: MGTC38H

MGTC745H Analysis for Decision-Making

Introduction to Management Science approaches to dealing with decision-making situations, including discussions of problem definitions, objective constraints, model construction and verification, development of solutions, sensitivity analysis and interpretation. Topics include: decision analysis, mathematical programming, network methods, dynamic programming and waiting-line models.

Enrollment is limited to students registered in Programs requiring this course.

Limited enrolment: 60
Exclusion: MATA21Y or MATH27 and ECMB02 (ECMB40) or ECMB11 and ECMB12 (ECMB69).

MGTC759H Operations Management: A Mathematical Approach

Introduction to the broad scope and major strategic, tactical, and operational decisions in Operations Management. Topics include: forecasting, long-range capacity planning, location and layout of facilities, aggregate production, project management, inventory control, and production scheduling.

Two hours of lecture per week.

Limited enrolment: 60
Exclusion: MGTC59H, MGTC74H
Prerequisite: MGTC74H

MGTC605H Marketing in the Information Age

With the advent of information technology, marketing of even common consumer goods has changed radically in the last decade. This course will focus on the techniques used by managers to target and reach the proper segment, gather timely marketing research, analyze it electronically and monitor the marketing process throughout. Course participants will engage in the creation of a product or service, and its associated marketing plan, through an integrated World Wide Web site accessible to the Brockton community.

Limited enrolment: 40
Prerequisites: CISC40H and MGTC40H

MGTD707H Market Research

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. Instruction involves lectures and class projects including computer analysis.

Limited enrolment: 40
Exclusion: MGTC55H
Prerequisites: MATA101 or ECMB11 and ECMB12 (ECMB69) and MGTC40H

MGTD121H Advertising: From Theory to Practice

An introduction to the basic communication tools used in planning, implementing and evaluating promotional strategies.

The course will review the basic findings of the behavioral sciences dealing with perception, personality, psychological appeals, and their application in advertising as persuasive communication. Students will gain experience preparing a promotional plan for a small business. The course will rely on lectures, discussions, individual and group presentations, and guest speakers from the local advertising industry.

Two hours of lecture per week.

Limited enrolment: 20
Prerequisite: MGTC20Y and MGTC40H or permission of the instructor.

MGTD133H Consumer Behaviour

The primary purpose of this course is to provide an overview of the role of consumers in the marketing of products. Specifically, we will explore why people buy things and attempt to understand how products, services and consumption activities contribute to the social world we create. Drawing on theories from psychology, sociology and economics, the requirements provide you with (1) a conceptual understanding of consumer behavior, and (2) experience in the application of buyer behavior concepts to marketing management and public policy decisions.

Limited enrolment: 30
Prerequisite: MGTC20Y and MGTC40H

MGTD140H Leadership and Management in the 21st Century

The information age accompanied by intense global competition and the need to manage an increasingly diverse workforce has ushered in the need for a new type of leader. In terms of leadership in the new economy all former bets are off, in order to thrive companies need fully engaged employees at all levels. Managers need to adopt new models of leadership if they are to encourage employees to work more independently, focus on customers, and contribute to problem solving throughout the organization. This seminar will draw on empirical research and the lessons learned from examining the leadership qualities of some of the best business leaders in North America to offer tools and strategies to apply in becoming the kind of leaders that will thrive in the new millennium. This is a senior level course in Leadership. This course will be a seminar type course with a great deal of reading. The final seminar report will be part of the course requirement.

Limited enrolment: 30
Prerequisites: MGIB23H and MGIB29H and MGIB20H.

MGTS650H Advanced Financial Accounting

Critical examination of practice in the context of accounting theory and concepts for a number of areas including intercorporate investments, and foreign currency transactions.

Two hours of lecture per week.

Limited enrolment: 40
Prerequisite: MGTC101Y.

MGTS655H Current Issues in Financial Accounting

This course will deal with a number of topics in current accounting literature, with particular reference to current financial reporting standards and the problems of the development of theories of, and for, accounting. Topics may also include...
not-for-profit and government accounting, deferred taxes and pensions, and international harmonization issues.

Two hours of lecture per week.

Limited enrollment: 60
Prerequisites: MGMT301H & MGMT302H

MGTD613H Auditing

An introduction to the principles and practice of auditing. The course is designed to provide students with a foundation in the theoretical and practical approaches to auditing by emphasizing auditing theory and concepts, with some discussion of audit procedures and the legal and professional responsibilities of the auditor.

Two and one half hours of lecture per week.

Limited enrollment: 60
Prerequisites: MGMT307H or MGMT317Y

MGTD613H Advanced Auditing

An extension of the study of areas covered in the introductory audit course. Topics will include risk analysis, statistical theory, comprehensive auditing, materiality, special reports and future oriented financial information. This will involve an extensive review of current articles in professional journals.

Two and one half hours of lecture per week.

Limited enrollment: 60
Prerequisites: MGMT306H

MGTD626H Auditing in a Computer Environment

An examination of the problems related to auditing computer system generated financial data, including consideration of risks and exposure, evaluation of controls and audit strategy development. Attention will also be given to computer-assisted audit techniques.

Limited enrollment: 60
Prerequisites: MGMT306H

MGTD616H Personal Financial Management

An introduction to personal financial management.

Upon completing the course, students should be capable of not only providing advice on specific financial problems, but also developing a comprehensive personal financial plan for a typical Canadian family at a general level. Topics to be covered include goal setting, personal financial statements, debt and credit management, measurement and management of risk, investing in stock and mutual funds, real estate appraisal and mortgage financing, tax saving strategies, retirement planning and estate planning.

The concepts and techniques covered in the course will benefit students in managing their personal finances, and in their personal careers with Canadian financial institutions.

Teaching methods for this course will include lectures, problem solving, case studies, projects and occasional guest speakers.

Two hours of lecture per week.

Limited enrollment: 50
Prerequisites: MGMT301H or permission of the instructor

MGTD613H Advanced Financial Management

An in-depth coverage of the major topics of corporate finance. This course concentrates on the personality and analysis of corporate bonds and the valuation of corporate bonds and equity. Students will be introduced to the concepts and techniques of financial management, including capital budgeting, capital structure, financial planning, dividend policy, leasing, mergers and acquisitions, and risk management.

Teaching methods include lectures and extensive use of cases.

Prerequisites: MGMT301H

MGTD751H Investments

This course deals with fundamental elements of investments. Basic concepts and techniques are introduced for various topics such as risk and return, market efficiency, portfolio construction, security analysis, investments in stocks, bonds and derivatives securities, and portfolio performance measurements.

Two hours of lecture per week.

Limited enrollment: 50
Exclusion: MGMT301H
Prerequisites: MGMT301H

MGTD620H 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 will 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 before registering.

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

Prerequisite: Permission of the instructor

COURSES NOT OFFERED 2002/2003

MGTD102H Quantitative Methods in Management

Exclusions: ANTC305H, ECON311B (ECON310B), GGBR311, PSYR310H, SOCB36H, STAB22H

Prerequisites: CSCA101H or CSCA102H

Co-requisite: ECONA01Y (ECONA02Y) or ECONA03Y (ECONA03Y)

MGTD243H Competitive Organizational Behaviour

Prerequisites: MGMT213H & MGB354H (MGB353H) (MGB357Y)

Co-requisite: ECONA01Y (ECONA02Y) or ECONA03Y (ECONA03Y)

MGTD243H Innovation Management

Prerequisites: MGMT213H & MGB354H

MGTD509H Educational Finance & Economics

Prerequisites: MGMT301H, MGTD302H

MGTD579H Current Issues in Management Accounting

Prerequisite: MGMT306H

Mathematics (B.Sc.)

Faculty List

E.W. Ellers, Ph.D. (Hamburg), Professor Emeritus
R.O. Buchweitz, Ph.D. (Harvey), Professor Emeritus
J. Noon, M.A. (Waterloo), Ph.D. (Penn State), F.R.S.C., Professor Emeritus
J.C. Jeffrey, A.B. (Princeton), M.A. (Cambridge), Ph.D. (Oxford), Professor
M. Goldstein, Ph.D. (Toronto), Professor Emeritus
R.M. Milne, B.Sc., M.Sc. (Manchester), Ph.D. (McGill), Professor
P. Selick, R.E., M.Sc., Ph.D. (Princeton), Professor
R.W. Sharpe, M.Sc., Ph.D. (Yale), Professor Emeritus
C. Alhassane, B.Sc., Ph.D. (Geneva), Associate Professor
J. Schick, D.Phil., (Oxford), Associate Professor
E. Moore, M.A. (Memorial), Ph.D., Senior Lecturer
H.S. Rosenthal, B.Sc. (C.U.N.Y.), Senior Lecturer
S.C. Teppen, M.Sc. (Toronto), Senior Lecturer
X. Jiang, B.Sc., M.Sc., Ph.D. (Glasgow), Lecturer

Discipline Representation: Until June 30, 2002
C. Alhassane (416-287-7267)
July 1, 2002 to June 30, 2005: T.B.A.
Our Mathematics began in the ancient Mesopotamian civilizations. The Babylonians already knew much of the mathematics taught traditionally in our schools. Their algebra and geometry was phrased in terms of crops and fields and money. Since the Renaissance, much of mathematics has come from problems in physics and astronomy; for example, calculus arose from problems in mechanics. In turn mathematics has provided the theoretical framework and tools in the Physical Sciences. In the 19th century some parts of mathematics appeared to develop away from their origins in the physical world. To the great surprise of many scientists and mathematicians, some of the "pure" mathematics has turned out to be essential in many aspects of 20th century science. Differential geometry provides the language for general relativity and cosmology, and Hilbert space theory and group representations are the tools for quantum mechanics. Similarly, graph theory, combinatorics and number theory play a major role in computer science. The Specialist Programs in Mathematics and in Mathematics and its Applications, and the Major Program in Mathematical Sciences, are eligible for inclusion in the Co-operative Program in Physical Sciences and the Early Teacher Project in Physical Sciences. Please refer to the Physical Sciences section (page 182) and to the Co-operative Program (page 65) sections of this City College Catalogue for further information.

Please refer to the Physical Sciences Searle program on page 162 for a list of lab courses often offered. The requirements of these Programs will be found on subsequent pages of this section.

SPECIALIST PROGRAM IN MATHEMATICS

Supervisor: B. Moore (416-287-7267)

The Specialist Program in Mathematics is designed to give students a thorough grounding in the main areas of Mathematics, together with an understanding of the close relationship between Mathematics and other Sciences. It is aimed at students who may be interested in teaching, law, government or industry, or who may decide to pursue a career in research.

[This Program is comparable to the Specialist Program in Mathematical and Applied Sciences on the St. George Campus.]
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<tr>
<th>First Year:</th>
<th>Fourth Year:</th>
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<tr>
<td>CSCA5H  Introduction to Computer Science</td>
<td>PSCD202H Current Questions in Mathematics and Science</td>
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<td>MATA23H  Linear Algebra 1</td>
<td>PSCD309H Computers in Contemporary Society</td>
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<td>MATA25H  Calculus</td>
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<td>PHYA10H  Dynamics of Classical Systems</td>
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<tr>
<td>PHYA21H  Principles of Modern Physics</td>
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**NOTE:** PSCD001H is a required course for ETP students. Recommended course: PHYB21H

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<th>Second Year:</th>
<th>Fourth Year:</th>
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<td>MATB24H  Linear Algebra II</td>
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<tr>
<td>MATC25H  Groups and Symmetry</td>
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<tr>
<td>MATB41H  Techniques of the Calculus of Several Variables I</td>
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<tr>
<td>MATB43H  Introduction to Analysis</td>
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<tr>
<td>STAB42H  Statistics</td>
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**SPECIALIST PROGRAM IN MATHEMATICS AND STATISTICS**
*Supervisor: M. Evans (416-287-7274)*

The Specialist Program in Mathematics has been withdrawn. Students currently registered in it will be allowed to complete it. Please consult with the Supervisor of Studies. Interested students should consider the Statistics Stream of the Specialist Program in Mathematics and Its Applications (below).

<table>
<thead>
<tr>
<th>Second or Third Year:</th>
<th>Fourth Year:</th>
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<tbody>
<tr>
<td>MATC25H  Fields and Groups</td>
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<tr>
<td>MATC25H  Classical Plane Geometries and their Transformations</td>
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<tr>
<td>MATC15H  Introduction to Number Theory</td>
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**SPECIALIST PROGRAM IN MATHEMATICS AND ITS APPLICATIONS**
*Supervisor: E. Moore (416-287-7267)*

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<tr>
<th>Third Year:</th>
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<tbody>
<tr>
<td>MATB44H  Ordinary Differential Equations</td>
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<td>MATC34H  Complex Variables</td>
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<tr>
<td>STAB47H  Introduction to Probability Theory and Mathematical Statistics</td>
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<tr>
<td>Two of: MATB61H Linear Programming and Optimization</td>
<td>MATB23H Linear Algebra I</td>
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<tr>
<td>MATC35H  Chaos, Fractals and Dynamics</td>
<td>MATA26Y Calculus</td>
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<tr>
<td>MATC38H  Introduction to Real Analysis</td>
<td>MATB43H Introduction to Analysis</td>
</tr>
<tr>
<td>MATC38H  Introduction to Mathematical Finance</td>
<td>MATB44H Ordinary Differential Equations</td>
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<tr>
<td>CSCS25H  Numerical Algebra and Optimization</td>
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<tr>
<td>CSCS35H  Numerical Approximation, Integration and Ordinary Differential Equations</td>
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<tr>
<td>Third Year: MATC20H Groups and Symmetry</td>
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<tr>
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<td>* PCB37H is required for the Computational Physical Sciences stream*</td>
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<td>** MATB47H must be taken in second year for the Statistics stream**</td>
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**AREAS OF CONCENTRATION:**

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<th>Teaching Stream:</th>
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<tr>
<td>MATC02H  Fields and Groups</td>
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<tr>
<td>MATC15H  Introduction to Number Theory</td>
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<td>MATC25H  Classical Plane Geometries and their Transformations</td>
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<tr>
<td>MATC25H  Graph Theory and Algorithms for its Applications</td>
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<tr>
<td>MATC44H  Introduction to Combinatorics</td>
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**Threat of:**

| MATB46H  Linear Programming and Optimization |                             |
| MATC46H  Differential Equations |                             |
| MATC35H  Chaos, Fractals and Dynamics |                             |
| MATC38H  Introduction to Real Analysis |                             |
| MATC38H  Introduction to Mathematical Finance |                             |
| MATC35H  Complex Variables II |                             |

Four C- or D-level CSC. MAT or STA half-courses

| PSCT02H  Current Questions in Mathematics and Science |                             |
| PSCT03H  Computers in Contemporary Society |                             |

**NOTE:** Students following this stream are encouraged to apply for acceptance into the Early Teacher Project. ETP students are required to take PSCT02H.

**Mathematics 147 Statistics Stream:**

| MATB61H  Linear Programming and Optimization |                             |
| MATC02H  Fields and Groups |                             |
| MATC25H  Classical Plane Geometries and their Transformations |                             |
| MATC46H  Differential Equations |                             |
| MATC15H  Introduction to Mathematical Finance |                             |

Two of: MATC35H Chaos, Fractals and Dynamics
| MATC38H  Introduction to Real Analysis |                             |
| MATC35H  Complex Variables II |                             |

2.0 F.C.E.’s from C-level STA courses and 300- and 400-level STA courses on the St. George campus.

| PSCT02H  Current Questions in Mathematics and Science |                             |
| PSCT03H  Computers in Contemporary Society |                             |

**Computational Physical Sciences Stream:**

| ASTA02Y  Introduction to Astronomy |                             |
| PHYA10H  Dynamics of Classical Systems |                             |
| PHYA21H  Principles of Modern Physics |                             |
| MATB61H  Linear Programming and Optimization |                             |
| MATC35H  Chaos, Fractals and Dynamics |                             |
| MATC44H  Introduction to Combinatorics |                             |
| MATC46H  Differential Equations |                             |
| CSCS25H  Numerical Algebra and Optimization |                             |
| CSCS35H  Numerical Approximation, Integration and Ordinary Differential Equations |                             |

Three of: PHYB21H Vibrations and Waves
| PHYB21H  Electricity and Magnetism |                             |
| PHYB21H  Introduction to Quantum Physics |                             |
| ASTB1H  Solar System and Stellar Astrophysics |                             |
| ASTC12H  Galactic and Extragalactic Astrophysics |                             |

One of: CSCS34H Computer-Based Simulation Models
| CSCS10H  Computer Graphics |                             |
| MATC01H  Introduction to Mathematical Finance |                             |
| MATC05H  Complex Variables II |                             |
| MATD01H  Readings in Mathematics |                             |
| PSCT02H  Current Questions in Mathematics and Science |                             |
| PSCT03H  Computers in Contemporary Society |                             |
MAT2A4H Calculus A
First term of MAT2A4H: Students in academic difficulty in MAT2A4H may withdraw from MAT2A4H and enroll in MAT2A4G in the Spring term.
These students are informed of this option by the end of the Fall term. Classes begin in the first week of the Spring term; late enrolment is not permitted. MAT2A4S together with MAT2A4P is equivalent for program and prerequisite purposes to MAT2A4Y. Students not enrolled in MAT2A4Y in the Fall term will not be allowed to enroll in MAT2A4S, with the following exception. A student who has successfully completed PHYS 211F and wishes to enroll in PHYS 218, is not enrolled in MAT2A4Y, may enroll in MAT2A4S with the consent of the instructor.
Two one-hour lectures per week and a one hour tutorial per week.
Exclusion: MAT2A4Y, MAT2A4S, MAT2A3H, MAT2A2H, MAT2A1H, MAT2A1F, 124, 125, 133, 135, 137, 149
Prerequisites: MAT2A4H

MAT2A4G Calculus B
Second term content of MAT2A4H; the final examination includes topics covered in MAT2A4H. Offered in the Summer Session only; students who have not previously enrolled in MAT2A4H will not be allowed to enroll in MAT2A4H. MAT2A4H together with MAT2A4P is equivalent for program and MAT prerequisite purposes to MAT2A4Y.
Two one-hour lectures per week and a one hour tutorial per week.
Exclusion: MAT2A4H, MAT2A4S, MAT2A3H, MAT2A2H, MAT2A1H, MAT2A1F, 124, 125, 133, 135, 137, 149
Prerequisites: MAT2A4S successfully completed.

MAT2A9Y3 Calculus
This course includes: limits and continuity, differentiability, related rates, extreme problems, graph sketching, Newton’s method, indeterminate forms and definite integrals, numerical integration, Taylor approximation and differential equations. The course will cover the theory and techniques of calculus with a strong emphasis on methods of approximation. The course is designed to give the student a solid foundation for further work in mathematics. Two one-hour lectures per week and a one hour tutorial per week.
Exclusion: MAT2A4M, MAT2A4L, MAT2A3H
Prerequisite: OC Calculus and OC Algebra and Geometry

MAT2A9Y3 Calculus
This course includes: limits and continuity, differentiability, related rates, extreme problems, graph sketching, Newton’s method, indeterminate forms and definite integrals, numerical integration, Taylor approximation and differential equations. The course will cover the theory and techniques of calculus with a strong emphasis on methods of approximation. The course is designed to give the student a solid foundation for further work in mathematics. Two one-hour lectures per week and a one hour tutorial per week.
Exclusion: MAT2A4M, MAT2A4L, MAT2A3H
Prerequisite: OC Calculus and OC Algebra and Geometry
MAT824H Linear Algebra II
Two one-hour lectures per week and a one hour tutorial per week.
Exclusion: MAT542Y, MAT624
Prerequisite: MAT223H, MAT223

MAT844H Techniques of the Calculus of Several Variables I
A study of vector algebra in $\mathbb{R}^n$, lines and planes in $\mathbb{R}^n$, complex numbers, matrices, determinants and linear equations, functions of several variables, partial derivatives, gradients, tangent plane, Jacobian matrix and chain rule. Taylor series, external problems, extremal problems with constraints and Lagrange multipliers, multiple integrals, spherical and cylindrical coordinates, law of transformation of variables.
Two one-hour lectures per week and a one hour tutorial per week.
Exclusion: MAT293Y, MAT293Y, MAT230, 234, 235, 237, 239, 257
Prerequisite: MAT223H, MAT223Y

MAT846H Techniques of the Calculus of Several Variables II
Fourier series. Vector fields in $\mathbb{R}^n$. Divergence and curl, vector, parametric representation of curves, path and line integrals, surfaces, parametric representations of surfaces, surface integrals, Green's, Gauss's, and Stokes' theorems will also be covered. An introduction to differential forms, to the exterior derivative.
Two one-hour lectures per week and a one hour tutorial per week.
Exclusion: MAT230, 234, 235, 237, 239, 257
Prerequisite: MAT241H

MAT848H Introduction to Analysis
This course is designed for students who have not studied analysis in their first-year mathematics courses, and who wish to acquire the analytic techniques which are essential for more advanced work. There will be a fundamental emphasis on rigorous proofs. Students will study the least upper bound principle for $\mathbb{R}$, as well as $\mathbb{R}$, continuity in one and two variables, space filling curves and nowhere differentiable functions, existence of extrema on closed and bounded sets, mean value theorems and the fundamental theorems of the calculus, the Riemann integral.
Two one-hour lectures per week and a one hour tutorial per week.
Exclusion: MAT247Y, MAT246
Prerequisite: MAT245H, MAT245H, MAT245H, MAT245H

MAT849H Differential Equations I
(Formerly MAT313H)
Ordinary differential equations of the first and second order, existence and uniqueness; schedules by series and integrals, linear systems of first order, non-linear equations, difference equations.
Two one-hour lectures per week and a one hour tutorial per week.
Exclusion: MAT293Y, MAT293Y, MAT230, 234, 235, 237, 239, 257
Prerequisite: MAT223H, MAT223Y

MAT854H Linear Programming and Optimization
Linear programming, simplex algorithm, duality theory, interior point method; quadratic and convex optimization, stochastic programming; applications to portfolio optimization and operations research.
Two one-hour lectures per week and a one hour tutorial per week.
Exclusion: APM261H
Prerequisite: MAT223H
Co-requisite: MAT824H

MAT801H Groups and Symmetry
(Formerly MAT801H, MAT831H)
Congruences and fields. Permutations and permutation groups. Linear groups. Abstract permutation group, subgroup, symmetry groups of regular polygons and Platonic solids, wallpapers groups. Group actions, class formula, Cosets, Lagrange’s theorem. Normal subgroups, quotient groups. Emphasis on examples and calculations.
Two one-hour lectures per week and a one hour tutorial per week.
Exclusion: MAT293Y, MAT293Y, MAT230, 234, 235, 237, 239, 257
Prerequisite: MAT223H

MATC42H Graph Theory and Algorithms for Applications
Graphs, subgraphs, isomorphism, trees, connectivity, coloring, Hamiltonian paths and circuits, planar graphs, vertex and edge colourings, planarity, network flows and shortest path algorithm. A selection of applications to such problems as timetabling, personnel assignment, task force scheduling, traveling salesmen, tournament scheduling, experimental design and finite geometries. Explicit algorithms and their computational complexity will be discussed whenever possible.
Two one-hour lectures per week and a one hour tutorial per week.
Exclusion: MAT293Y, MAT293Y
Prerequisite: MAT223H, MAT223H
Co-requisite: MAT224H

MATC46H Differential Equations II
(Formerly MAT506)
Sturm-Liouville problems, Green’s functions, special functions (Bessel, Legendre), partial differential equations of second order, separation of variables, integral equations, Fourier transform, stationary phase method.
Two one-hour lectures per week and a one hour tutorial per week.
Exclusion: MAT293Y, MAT293Y
Prerequisite: MAT446H, MAT246H
Co-requisite: MAT246H

MATC69H Introduction to Mathematical Finance
Brownian motions, Fokker-Planck equation, stopping times, reflection principle, Dynkin’s theorem, Stochastic calculus, Ito’s lemma, martingals, stochastic optimization, Black-Scholes equation. The course provides an introduction to methods of interest in Financial mathematics.
Two one-hour lectures per week and a one hour tutorial per week.
Prerequisite: MAT423H, STA424H
Co-requisite: MAT458H & MAT466H
Recommended: STA525H

MATC56H Differential Geometry
Curves and surfaces in Euclidean 3-space. Serre-Frenet frames and the associated equations, the first and second fundamental forms and their integrability conditions, intrinsic geometry and parallelism, the Gauss-Bonnet theorem.
Two one-hour lectures per week and a one hour tutorial per week.
Exclusion: MAT543H, MAT563H
Prerequisite: MAT542H

MATC58H Complex Variables II
Applications of complex analysis to geometry, physics and number theory. Fractional linear transformations and the Lorentz group. Solution to the Dirichlet problem, harmonic mapping and the Poincare kernel. The Riemann mapping theorem. The prime number theorem.
Two one-hour lectures per week and a one hour tutorial per week.
Exclusion: MAT574H
Prerequisite: MAT542H
Neuroscience (B.Sc.)

Faculty List
R. Boynton, B.Sc. (Calgary), Ph.D. (British Columbia), Professor
L. Brown, B.Sc. (Carleton), Ph.D. (Texas) Professor
C. C. Creed, B.Sc. (Rhode), M.Sc. (Natal), Ph.D. (Manitoba), Professor
J. W. Gard, B.A. (Mount Allison), Ph.D. (McGill), Professor
G. O. Ivy, B.A. (Drew), Ph.D. (California, Irvine), Professor
N. W. Magran, B.A. (UCLA), M.A., Ph.D. (McGill), Professor
T. L. Pett, B.Sc., M.A. (Louisiana), Ph.D. (Florida), Professor
S. Reh, B.Sc. (Wellesly), M.A., Ph.D. (Concordia), Assistant Professor
A. C. Macau, B.Sc. (Ohio), M.Sc., Ph.D. (Toronto), Assistant Professor
B. A. Stewart, B.Sc. (Guelph), M.Sc., Ph.D. (Toronto), Assistant Professor
K. Zaksanis, B.A., M.A., Ph.D. (York), Assistant Professor

Neuroscience encompasses aspects of a variety of disciplines that have the common goal of understanding how the nervous system works. Techniques from constituent disciplines like anatomy, biochemistry, molecular biology, pharmacology, physiology, psychology and zoology are used to unravel some of the mysteries of the brain and its mechanisms of action. Investigators in Neurobiology have also made fundamental contributions to clinical aspects of neurodegeneration and behavior.

The Major Program is intended for students who wish to combine their studies of Neuroscience with other areas of interest. The Specialist Program is designed for students who have a particular interest in the Neurosciences and wish to focus their studies in this area.

First-Year Students In Neuroscience: BGYA0Y, CHMA0Y and PSYA0Y are recommended in the first year if you are intending to pursue a Specialist or Major Program in Neuroscience.

SPECIALIST PROGRAM IN NEUROSCIENCE
Supervisor: G. Ivy (Office: S569)
byucf@utsc.utoronto.ca
The Program requires completion of 12.5 full-course equivalents.

1. The following 3 F.C.E.s:
   BGYA0Y Introductory Biology
   CHMA0Y General and Introductory Organic Chemistry
   PSYA0Y Introductory Psychology

2. The following 4.5 F.C.E.s:
   BGYB10Y Cell & Molecular Biology
   BGYB23H Animal Physiology
   BGYB33H Animal Physiology Laboratory
   CHMB44Y Organic Chemistry (NR0K3H) (Animal Physiology)

3. The following 3.5 F.C.E.s:
   BGYC12H Biochemistry I: Proteins & Enzymes
   BGYC13H Biochemistry II: Bioenergetics & Metabolism
   NR0C34H Neurobiology (Invertebrate Neurobiology)
   NR0C61H Neuroscience II: Learning & Motivation
   NR0C53H Neuroscience Laboratory
   NR0C64H Neuroscience III: Sensory & Motor Systems
   PSYO8H Advanced Data Analysis in Psychology

4. The following 1.5 F.C.E.s from the following:
   (Suspended Study or Thesis courses can be used to fulfill a maximum of 0.5 F.C.E. in this category).
   BGYD34H Vertebrate Endocrinology
   BGYD35H Animal Communication
   NR0C23H Developmental Neurobiology
   NR0C09H Synaptic Organization of the Brain

5. The following 1.5 F.C.E.s from the following:
   BGYD34H Vertebrate Endocrinology
   BGYD35H Animal Communication
   NR0C34H Neurobiology (Invertebrate Neurobiology)
   NR0C53H Neuroscience Laboratory
   NR0D09H Current Topics in Neuroscience

6. The following 1.5 F.C.E.s from the following:
   NR0D03H Neurobiology (Neuropathology)
   NR0D33H Synaptic Organization of the Brain

7. The following 3 F.C.E.s:
   NR0D58H Pathologies in the Nervous System
   NR0D67H Psychology of Aging
   NR0D58Y Thesis in Neuroscience
   PSYC21H Clinical Neuropsychology
   PSYC22H Drugs and the Brain
   PSYD33H Current Topics in Abnormal Psychology

MAJOR PROGRAM IN NEUROSCIENCE
Supervisor: G. Ivy (Office: S569)
byucf@utsc.utoronto.ca
The Program requires seven full-course equivalents. Students who wish to combine the Major Program in Neuroscience with the Major in Integrative Biology or the Major in Psychology are advised that they must present 2 distinct full-course equivalents to receive certification of the completion of both programs. Consultation with the respective Program Supervisors in the selection of courses is recommended. The following indicates the required courses for the Major Program in Neuroscience.

1. The following 3.0 F.C.E.s:
   BGYA0Y Introductory Biology
   CHMA0Y General and Introductory Biology
   PSYA0Y Introductory Psychology

2. The following 1.5 F.C.E.s:
   NR0B60H Neuroscience I: Cell
   NR0C61H Neuroscience II: Learning & Motivation
   NR0C64H Neuroscience III: Sensory & Motor Systems
   PSYO8H Advanced Data Analysis in Psychology

3. 2.0 F.C.E.s from the following:
   BGYB10Y Cell and Molecular Biology
   BGYB33H Animal Physiology
   BGYB33H Animal Physiology Laboratory
   NR0B33H Animal Physiology
   PSYB70H Data Analysis in Psychology
   PSYB58H Human Brain and Behaviour

4. 0.5 F.C.E. from the following:
   BGYD34H Vertebrate Endocrinology
   BGYD35H Animal Communication
   NR0C34H Neurobiology (Invertebrate Neurobiology)
   NR0C53H Neuroscience Laboratory
   NR0C09H Synaptic Organization of the Brain

5. 0.5 F.C.E. from the following:
   (Suspended Study or Thesis courses can be used to fulfill a maximum of 0.5 F.C.E. in this category).
   BGYD34H Vertebrate Endocrinology
   BGYD35H Animal Communication
   NR0C34H Neurobiology (Invertebrate Neurobiology)
   NR0C53H Neuroscience Laboratory
   NR0C09H Synaptic Organization of the Brain

6. 0.5 F.C.E. from the following:
   BGYD34H Vertebrate Endocrinology
   BGYD35H Animal Communication
   NR0C34H Neurobiology (Invertebrate Neurobiology)
   NR0C53H Neuroscience Laboratory
   NR0C09H Synaptic Organization of the Brain
NROC391H Supervised Study in Neuroscience
NROC304H Current Topics in Neuroscience
NROC2030 (Neuroplasticity)
NROC306H Advanced Neuroscience Laboratory
NROC355H Pathologies of the Nervous System
NROC369H Psychology of Aging
NROC398Y Thesis in Neuroscience
PSYC313H Clinical Psychology
PSYC252H Drugs and the Brain
PSYC239H Current Topics in Abnormal Psychology
NROC5093H Neuroscience I: Cell Anatomy and Physiology

In-depth coverage of the structure and function of the nervous system.

Topics include: neuroanatomy, structure and function of neurons and glial cells, neurochemistry, neural development, and neural mechanisms of communication, at the cellular and molecular levels. The objective is to give the student a firm grasp of the structure and cellular/molecular basis of functions of the nervous system as well as its role in the behaviour of the organism.

These hours of lecture and two hours of lab per week.
Exclusion: PSYC290, PSYC391, ZOOC322
Prerequisite: BOY410Y, PSY240Y (CHMAC41Y is strongly recommended for students with no Chemistry background)

G. Ivy

NROC344H Neuroethology

A lecture course on the neural basis of natural behavior, based on original scientific papers. The goal is to give students an overview of the integrative function of the nervous system and the neural basis of behavior in model systems. Selected readings will cover motor and sensory systems, mechanisms of decision-making, learning, memory, and social behavior. Students will also be required to spend additional hours working in the student laboratory.

Limited enrolment: 30
Exclusion: PSY399
Prerequisites: PSY207H & NROC368H

T. Peirce

NROC348H Neuroscience III: Sensory and Motor Systems

A focus on the mechanisms by which the nervous system processes sensory information and controls movement.

The topics include sensory transduction and the sensory physiology for each of the sensory systems (olfactory, visual, somatosensory, auditory, gustatory) and models of sensory processing. Both spinal and central mechanisms of motor control are also covered.

Three one-hour lectures and one one-hour tutorial per week.
Exclusion: PSY200
Prerequisites: NROC368H

N. W. Miligram

NROC304H Synaptic Organization of the Brain

A detailed study of the synaptic organization of the brain, focusing on major structures of the central nervous system (CNS).

Neuronal morphology, synaptic connectivity, and molecular mechanisms of synaptic function, on cholinergic and neurotransmitter axon tracts will be covered in detail. Similitudes in circuitry among such seemingly diverse structures as the olfactory bulb, cerebellum, hippocampus and cerebral cortex will be examined in detail. The goal of the course is to provide a deeper understanding of cellular mechanisms of information processing in the CNS.

One two-hour lecture per week.
Prerequisites: NROC204H

G. Ivy

NROC304H Supervised Study in Neuroscience

A reading or research project.

These courses provide an opportunity to investigate an area of neuroscience in depth after completing basic coverage in required courses. They are not intended as substitutes for advanced courses in fields where these are available. The student must demonstrate that his or her background is adequate for the project proposed and should present a clear rationale to prospective supervisors. Frequent consultation with the supervisor is necessary and extensive library research and data collection will be required. Such a project will culminate in a written submission.

Students must obtain a permission form from the Life Sciences Office (SS218B) that is to be completed and signed by the intended supervisor, and returned to the Life Sciences Office. At that time, the student will be provided with an outline of the schedule and general requirements for the course.

Students seeking supervision off campus are further advised to verify first with the supervisor of studies that the prospective project supervisor currently holds a cross-appointment at the University of Toronto and that the project is acceptable. In addition, the student must have a co-supervisor who is a member of the Neuroscience group at Sciborough.

Exclusions for NROC309: PSYC390, BGY261
Exclusions for NROC359: PSYC390, BGY261
Prerequisites: three full-course equivalents in Psychology, Biology or Neuroscience & permission of the instructor.

Supervision by a faculty member

NROC309H Current Topics in Neuroscience

An intensive examination of selected issues and research problems in the Neurosciences. Limited enrolment: 20
Exclusion: PSYC390
Prerequisites: NROC359H & NROC348H

W. W. Miligram

NROC317H Psychology of Aging

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 in depth.

Two hours of lecture per week.
Limited enrolment: 20
Exclusion: PSYC390
Prerequisite: NROC360H

Compulsory: NROC505H

G. Ivy

NROC398Y Thesis in Neuroscience

This course offers qualified students the opportunity to engage in a year-long research project under the supervision of a faculty member in the Neuroscience area (Psychology or Biology). Students will meet as a group with the course co-ordinator to present their own research proposals, to appraise the proposals of others and to discuss the results of their own investigations. Additional topics directly related to neuroscience research will also be discussed.

The individual research project will culminate in a written report in the form of a thesis and an oral defence of that report in the spring.

Students must obtain a permission form from the Life Sciences Office (SS218B) that is to be completed and signed by the intended supervisor, and returned to the Life Sciences Office. At that time, the student will be provided with an outline of the schedule and general requirements for the course. Students seeking supervision off campus are further advised to verify first with the Supervisor of Studies that the prospective project supervisor currently holds a cross-appointment at the University of Toronto and that the project is acceptable. In addition, the student must have a co-supervisor who is a member of the Neuroscience group at Sciborough.

Exclusions for NROC309: PSYC390, BGY261
Exclusions for NROC359: PSYC390, BGY261
Prerequisites: satisfactory completion of fifteen full-course equivalents in any discipline, but including PSY207H & one laboratory half- course in Psychology or Biology & consent of a faculty member in Psychology or Biology to serve as research supervisor.

Supervision by a Faculty Member
COURSES NOT OFFERED 2002/2003
NRO693H Advanced Neuroscience Laboratory
Exclusion: PSY109
Prerequisite: NRO303H Co-requisite: NRO311H & PSY268H
NRO693H Pathologies of the Nervous System
Prerequisite: NRO693H Co-requisite: PSY689H

Program Requirements
Supervisor: L. Chau (chau@ec.utoronto.ca)
This program is offered in collaboration with the Centre for Creative Communications at Centennial College. The program may be taken in partial fulfillment of the requirements of a four-year (20-course) Human B.A. Degree, when taken with a major (or specialist) program in another field.
In addition to completing the requirements for the degree, students have the option of qualifying for a certificate from Centennial College by undertaking an additional semester, which includes a portfolio project or a field placement, and a professional practice course.

Program Admission Requirements
Limited enrolment. Students must request the program in ROSI by the May or August deadline and submit an application form and portfolio to the program supervisor by the same deadline. Following receipt of the applications, arrangements will be made for the student to take Centennial's design test. Students who do not pass a portfolio when beginning university studies should include VPA401H in their first year program; alternatively, they may wish to enroll in a suitable non-credit course at Centennial College while in the process of preparing a portfolio for evaluation. Students may be required to attend an interview before the decision is made.

Students must complete 8 full-course equivalents, which must include:
1. 0.5 F.C.E. from among:
   CS550H Introduction to Computing Science
   CS585H Introduction to Computer Science
   VPA803H Computers and the Arts I
(b) 3.0 F.C.E. from among the following courses, at least 1 F.C.E. from each group (some courses have prerequisites and/or enrollment restrictions—students should consult the course descriptions and plan accordingly):
   (i) ENGL11Y Introduction to Literary Study; The Twentieth Century
   ENGL21H Writing Workshop for ENGL11Y
   PHIL22H Philosophy of Art
   PHIL23H The Art of Thinking
   VPA420H Foundation Studies in Studio
   VPA430H Why Is It Art?
   VPA470H Computers and the Arts II
   VPA492H Electronic Media
   (ii) ECMD20H Economics of the Media
   ENGR52Y What is Culture?
   ENGR52Y Literature and Media
   IDSC90H Media and Development
   INTRO1Y International Studies and International Communications
   PHIL50H Social Issues
   SOCB34Y Sociology of Mass Media and Communications
   VPA505H Introduction to Contemporary Cultural Theory
   WSTB13H Women's Studies and the Media
(c) News Media Group 1—These courses are taken at Centennial College. Students will be eligible to enroll in these courses after successfully completing at least 12 F.C.E. at University of Toronto at Scarboro, which must include requirements (a) and (b) in (a) above.
   NMEA01H Digital Fundamentals
   NMEA03H Introduction to New Media Communications
   NMEA03H Theory of Design
   NMEA04H Interface Design, Navigation and Interaction I
   (d) New Media Group 2—These courses are taken at Centennial College. Students will be eligible to enroll in these courses after successfully completing all courses in Group 1 above.
   NMEB051H Interface Design, Navigation and Interaction II
   NMEB06H Project Development and Production
   NMEB08H Application Software for Interactive Media
   NMEB09H Sound Design
   NMEB10H Design for New Media
   (e) NMEB02H New Media Studio Project
   (f) NMEB03H New Media Directed Research (or one other half course from lists (a) and (b) above)
   * Pending approval of the Governing Council

NMEA01H Digital Fundamentals
This course introduces basic hardware and software for new media. Students will learn basics of HTML (tags, tables and frames) and Java for creation of new media. Discusses hardware requirements including storage components, colour palettes and different types of graphics (bitmap vs. vector-based). Students will be introduced to a variety of software packages used in new media production. This course is taught on the Centennial Campus.

Limited enrolment: 25. This course is only open to students registered in the Collaborative Major Program in New Media.
Prerequisites: 12 F.C.E. Co-requisites: NMEA20H, NMEA30H, NMEA40H

NMEA02H Introduction to New Media Communications
This course enables students to develop strong written communications skills for effective project proposals and communications, as well as non-linear writing skills that can be applied to a wide range of interactive media projects. The course examines the difference between successful writing for print and for new media, and how to integrate text and visual material. This course is taught on the Centennial Campus.

Limited enrolment: 25. This course is only open to students registered in the Collaborative Major Program in New Media.
Prerequisites: 12 F.C.E. Co-requisites: NMEA10H, NMEA20H, NMEA30H

NMEA03H The Language of Design
This course introduces the fundamentals of two-dimensional design, graphic design, graphic design history, color principles, typographic principles and visual communication. Students then apply to New Media Design. Working from basic form and color, two-dimensional designs will completed and visual communication strategies, learners will be introduced to the exciting world of applied graphic design and multimedia.

Starting with theory and vocabulary, learners will begin to investigate graphic design principles. The course encompasses the processes of visual interpretation, design definitions research and analysis, synthesis, ideation, implementation, evaluation and appropriateness of media and software. The affects and effects of graphic design, colour, media, multimedia time, kinetics and typography will be explored. Conceptual planning, project management and understanding the visual problem/solution will be integral aspects of the course. This course is taught on the Centennial Campus.

Limited enrolment: 25. This course is only open to students registered in the Collaborative Major Program in New Media.
Prerequisites: 12 F.C.E. Co-requisites: NMEA20H, NMEA20H, NMEA30H

NMEA04H Interface Design and Navigation
This course introduces students to the discipline of user interface and software design, and in particular their impact and importance in the world of new media. The course uses theory and research in combination with practical application, to bring a user-centred design perspective to developing new media software. This course is taught on the Centennial Campus.

Limited enrolment: 25. This course is only open to students registered in the Collaborative Major Program in New Media.
Prerequisites: 12 F.C.E. Co-requisites: NMEA01H, NMEA02H, NMEA30H

NMEA05H Interface Design, Navigation and Interaction II
This course extends work on interface design, building on NMEA04H. It enables students to have opportunities to gain real world experience in the techniques of user interface design for new media. Participants learn to do "requirements documents" for projects and how to design an interface which meets the needs of the requirements document.

Participants test a design with real users, and begin analyzing and determine how to respond to user needs. From the experience, this group learns the general process of designing interfaces to meet such needs. This course is taught on the Centennial Campus.

Limited enrolment: 25. This course is only open to students registered in the Collaborative Major Program in New Media.
Prerequisites: NMEA01H, NMEA02H, NMEA10H, NMEA20H, NMEA30H

NMEA06H Project Development and Production
This course enables the participant to understand the new media production process. Learners will develop the skills to conduct benchmarking, scoping and testing exercises that lead to meaningful project planning documents. Learners will develop and manage production schedules for their group projects that support the development efforts for the project planning documents. Through the development and understanding of the production process, this course also
Philosophy

NMEB01H1S Digital Fundamentals: Advanced Software
This course builds on NMEA01H1. It enables learners to extend their understanding of software requirements and of advanced software technologies. Software used may include Dreamweaver, Flash Director, and animation (using Director). This course is taught on the Centennial Campus.
Limited enrolment: 25. This course is only open to students registered in the Collaborative Major Program in New Media. Prerequisites: NMEA01H1, NMEA02H1, NMEA03H1, NMEA04H1.
Co-requisites: NMEB01H1S, NMEB02H1S, NMEB03H1S, NMEB04H1S.

COURSES NOT OFFERED 100/2003

NMEB0103 Media Senior Project
Limited enrolment: 25
Prerequisite: Completion of 15 F.C.E. including NMEB02H1S, NMEB03H1S, NMEB04H1S & NMEB05H1H.

NMEB0210 Directed Research in New Media
Prerequisite: Completion of 15 F.C.E. including NMEB02H1, NMEB03H1, NMEB04H1 & permission of the instructor.

Philosophy (B.A.)

Faculty List
W.C. Graham, M.A., Ph.D. (Toronto), Professor Emeritus
J.H. Sibel, M.A. (Iowa State), Ph.D. (Michigan), Professor Emeritus
W.E. Seager, M.A. (Alberta), Ph.D. (Toronto), Professor
R.P. Thompson, M.A., Ph.D. (Toronto), Professor
L. Lange, B.A., M.A. (Manitoba), Ph.D. (Toronto), Associate Professor
S. Sadovy, B.A. (Toronto), Ph.D. (Pittsburgh), Associate Professor
J. Hawkins, B.A. (Texas), M.A., Ph.D. (Philippines), Assistant Professor
M. Lin, B.A. (NYU), Ph.D. (Chicago), Assistant Professor

Discipline Representative: W. Seager

Philosophy is the study of the ideas that shape our thought and activity. While we do discuss controversial issues in politics, morality, science, religion, art, etc., philosophy is more concerned with the ideas that underlie all such debates. We consider what the role of government should be, what reasons there could be to describe anything as good or bad, what proves that something is true, whether there could be a reality beyond the physical world, and whether the only value of art is the pleasure it gives.

PHI201Y3 Fundamental Questions of Philosophy
A discussion of some of the fundamental questions of philosophy: what is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justifiable? Is materialism true? Are humans free?

Some of the world's major philosophers will be studied with a view to answering these and other basic questions which have confronted us throughout history.

The course will be divided into the following lecture sections: L1, L2, L30. The problems addressed are substantially the same in each section, though the readings and approach may vary from section to section, depending on the instructor.

Staff

PHILB011H Ethics
A study of philosophical problems and postures in ethics.

Topics may include: the relativity of values, the justification of morality, moral skepticism, ethical egoism, utilitarianism, deontology. Exclusions: PHIL275, 276

J. Hawkins

PHILB050H3 Social Issues
An examination of issues that may be of both contemporary and historical, that call on us to consider and articulate our values and commitments. Exclusion: PHIL381

T.B.

PHILB080H3 Business Ethics
An examination of philosophical issues in economics, social theory, and theories of human nature as they bear on the conduct of business.

Topics may include: What moral obligations do businesses have to the people who work for them, and to the communities in which they market? Can society be calculated in a way that is relevant to business decisions? Do global ideas such as democracy have a role within business? Exclusion: PHILPH209H5

T.B.A.

PHILB130H3 Philosophy and Feminism
Study and discussion of a variety of issues in contemporary feminist philosophy.

This course will be an introduction to a diverse range of feminist ideas. Feminist thinkers differ greatly about the nature and source of the problem of gender inequality,
and equally wide of proposals for more egalitarian societies. What is freedom? What is a woman? Or a man? Is there anything natural or inevitable about gender relations? Why do gender relations exist in virtually every known society? How do gender relations intersect with other social relations, such as economic class, culture, race, sexual orientation, etc.? These and other topics will be considered through assigned readings, class discussion, and written work.

L. Lange

PHL18103 Philosophy of Education A study of the nature of education. Exclusion: PHL1315 T.B.A.

PHL20913 Bellal, Knowledge, and Truth 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: PHL230 T.B.A.

PHL20913 Existentialism A study of the views and approaches characteristic of such writers as Kierkegaard, Husserl, Jacques, Heidegger, and Sartre. Exclusion: PHL220, 321 T.B.A.

PHL25013 Symbolic Logic I An introduction to formal techniques of reasoning, sentential logic, and quantification theory or predicate logic. The emphasis is on the application of and practice in techniques, for example, for formal analysis of English sentences and arguments, and for construction of clear and rigorous proofs. Exclusion: PHL245 J.H. Sobel

PHL25013 The Art of Thinking A study of methods and techniques for developing effective reasoning and argument, and as exploration of the patterns of thinking that characterize creative thought.

This course aims to develop skill in identifying ambiguities, evaluating premises, constructing counter-examples, and rethinking arguments. It examines such aspects as: informal logic; deductive argument versus persuasion; types of arguments and techniques of refutation; common fallacies; and how to avoid them.

The focus will be on arguments made in ordinary, as opposed to specialized or technical, language. A general proficiency in reading and writing English will be assumed. This course provides an important foundation for Philosophy students, while offering useful skills for all students, in many different contexts.

Program. Exclusion: PHL247TH, TRN5001 T.B.A.

PHL25020 Metaphysics 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: PHL231 M. Lin

PHL25020 Philosophy of Language An examination of various philosophical issues raised by the phenomena of language. Topics include: how we can understand one another and form concepts; how words manage to refer to things; and the explanation of the nature of linguistic meaning. T.B.A.

PHL25020 Theories of Mind 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 doubts on this view, and work in cognitive science suggests that minds and thinking can even be attributed to machines.

We will examine the nature of the mind, and such questions as what thinking is, and whether or not machines can have a mind.

Exclusions: PHL240, 242 J. Hawley

PHL25020 Philosophy and Culture An examination of basic philosophical issues in the construction and interpretation of culture. What do we mean when we use the word "culture"? What intellectual tools do we need to understand culture? Is philosophical questioning, often thought to be universal, in fact shaped by developments in the surrounding culture? How, in turn, does philosophy affect the importance of culture? Can philosophical reflection help resolve conflicts within, and between, cultures?

Thinkers to be studied may include: Marx, Fromm, Gadamer, Habermas, Foucault, Lyotard, Inas and McAlpin.

T.B.A.

PHL25013 Ethics II Major twentieth-century ethical theories. Topics studied may include, for example, G.E. Moore's non-realism, W.D. Ross' utilitarianism, J.L. Mackie's moral skepticism, and R.M. Hare's "universal prescriptivism."

Exclusion: PHL209, PHL372, PHL172 H. Sobel

PHL25013 Symbolic Logic II A continuation of PHL250. The natural deduction system studied in Symbolic Logic I is extended to cover identity and definite descriptions. Special attention is paid to the restriction of the identity calculus to "extensional" terms and formulas. Alternative treatments of definite descriptions, one that follows Frege, the other that follows Russell, are developed and compared. The text is D. Kalish, R. Montague and G. Mar, Logic: Techniques of Formal Reasoning. Exclusion: (JMP35) PHL250 J.H. Sobel


How has western European philosophy and religious thought been shaped by western Europe's colonization of other parts of the world? After 1492, how did western European thinkers perceive and imagine the indigenous peoples of the Americas? How was this connected to European attitudes toward Africa, Asia and the East?

We will examine modern philosophy's ideas of national identity, colonialism, and modernity. Reading will include some primary sources in modern philosophy and contemporary works in postcolonial studies.

Prerequisite: Two P.C.E.'s in PHL or permission of the instructor

L. Lange

PHL25013 Seminar in Philosophy: Cultural Criticism A detailed examination of philosophical issues in cultural thinking about culture.

This course will pursue theoretical concerns about interpretation, dialogue, identity and authenticity as they relate to cultural formations, including minority cultures, sub-cultures and popular culture. We also consider the role of ideology, the construction of cultural consensus, and the influence of the media on culture. Readings from authors such as Barthes, Postman, Gadamer, Habermas, Bataille, Debeur and Beauvoir.

Prerequisite: Two P.C.E.'s in PHL or permission of the instructor.

T.B.A.

PHL25013 Seminar in Philosophy: Minds and Machines An examination of various arguments for and against the idea that machines, especially computing machines, can be conscious, can think, or can feel. Topics may include Turing's test of machine intelligence, the arguments based on Gödel's theorem that there is an unbridgeable gap between humans and machines, Searle's "Chinese Room thought experiment."

Prerequisite: Two P.C.E.'s in PHL or permission of the instructor

T.B.A.

PHL25013 Seminar in Philosophy: Topic to be Announced Prerequisite: Two P.C.E.'s in PHL or permission of the instructor

T.B.A.

PHL25013 Independent Study These courses are intended for qualified students who wish to engage in advanced level work on a well-defined topic of their choice. These courses are only available with prior arrangement of an instructor.

COURSES NOT OFFERED 2003/2003

PHL20913 Philosophy of Art Political Philosophy Exclusion: PHL263

PHL21113 Philosophy of Law Philosophy of Science and Philosophy of Religion

PHL27013 Philosophy of Science Exclusion: (BIP188), (PHL271), (PHL355), BIOG707 Prerequisite: One course or half-course in Philosophy or a course in one of the Sciences

PHL28513 Foundations of Cognitive Science Exclusion: (COG300Y)

PHL21313 Seminar in Philosophy: Gender Theory Prerequisite: This is a senior seminar course for general interest for philosophy students and others, with lectures, class discussion, and essays.

Students should have completed at least two P.C.E.'s at the B- or C-level in any subject before enrolling in this course.

T.B.A.

PHL2161 Seminar in Philosophy: Philosophy of Religion
The following Major Programs are offered by the Physical Sciences Division at Scarborough:

- Astrophysics and Physics
- Biology
- Chemistry
- Computer Science
- Environmental Science
- Mathematical Sciences
- Physical Sciences

The Division also offers a Minor Program in Environmental Science.

Students are strongly advised to take the courses in the sequence recommended by their program(s) of choice. Irresponsible timetable differences may arise if courses are delayed to later years. Students should pay careful attention to all pre- and co- requisite courses to ensure that they are eligible to take their courses at the proper time. Some C- and D-level courses are offered in alternate years. Students are advised to consult with their Program Supervisor(s) to find out when particular courses will be available.

EARLY TEACHER PROJECT

Coordinator: C.C. Dyce (416-287-2706)

The Early Teacher Project (ETP) in Physical Sciences is dedicated to producing future high school and elementary school teachers of Science and Mathematics. The Division of Physical Sciences, University of Toronto at Scarborough, and OSERUT co-operate in supporting this program.

Participation in the ETP requires that the student be registered in one Specialist or two Major programs offered in the Division of Physical Sciences, and to take part fully in all the academic activities of the ETP, as described below. The ETP Supervisor will approve the program for each student and will ensure that, as far as possible, the combination of courses meets the student to the Honour Specialist Ontario Teacher Certification in one or more subjects.

The ETP is structured in three consecutive phases. Phase I, completed in the first two years of the B.Sc. degree, Phase II, completed in the final two years of the B.Sc. degree: following Phase III: B.Ed. should be done at OSERUT.

Admission to Phase I can be by direct admission from high school. When applying, use the special code for this UTSC program on the Application for Admissions to an Ontario University. Once the University of Toronto is notified of the student's admission, the students are sent information on how to download the supplementary application from our website.

Direct admission is limited and will be based on the overall high school average presented for admission to the University and grades in science subjects, including specifically, Chemistry, Physics and Calculus, and other criteria, such as extracurricular activities and work experience, letters of reference, and a statement of interest from the student, indicating the area(s) of Physical Sciences in which he/she might specialize and describing further ambitions to become a science teacher.

Students may also apply for admission at the end of their first year provided that they have achieved a G.P.A. of at least 2.50 in at least 4.0 C.P.C.'s and have completed all the courses required in the 1st year of their chosen Program(s). They must successfully register, with the approval of the ETP Supervisor, in a Specialist Program or two Major Programs offered in the Division of Physical Sciences. They must also provide a statement of intent, information on other activities, such as extracurricular activities and work experience, and, where required, provide letters of reference and attend personal interviews.

In the first year, an introductory seminar will introduce the whole program for the four years. There will be advice on the choice of Physical Sciences Division Programs, with clear explanation of additional requirements imposed by the Early Teacher Project. In the second year there will be two seminars that provide a general introduction to teaching and to special programs like "Scientists in Schools" and to the Professional Program in Physical Sciences.

At the end of the second year, students will attend the ETP Week at OSERUT. Admission to Phase II will require that the ETP student has completed at least 50% of his/her Bachelor's course work and have a G.P.A. of 2.5 on these courses. It will also require that the student has completed all regular ETP activities, and all required courses for the first two years of the chosen Specialist or Major programs. The student will be interviewed by the ETP Co-ordinating Group and a representative of OSERUT to ensure that the student is making progress and is suitable for a career in teaching.

Two three-phase programs, the ETP student must participate in the mandated ETP activities, including two practicum placements in schools, usually in May of third and fourth year, each completing at least 22 days in the classroom. Upon approval of the Co-ordinator, alternate practicum placements are acceptable, with a prime example being the "Scientists in Schools" program.

The student must complete one of the Specialization courses in the B.Sc., and one of the Specialization courses in the B.Ed. This requirement is part of the agreement between OSERUT and OSERUT, and cannot be waived. Even where these courses are not specific to the chosen academic program(s), ETP students must complete these two courses. It is the responsibility of the ETP student to ensure that these two requirements are met, regardless of their specialization course program requirements. In many cases, they will have to be among the chosen elective courses.

ETP students must attend four special ETP seminars in each of their third and fourth years, for a total of eight such seminars. The first practicum placement will normally take place in May of the third year of study, with the second placement taking place in fourth year.

Admission to Phase III, the final phase in obtaining the B.Ed. degree, and the Ontario Teacher Certification, requires the student to be admitted to OSERUT. Admission to OSERUT requires a G.P.A. of at least 2.5 on the best 15.0 P.C.E. of the 26.0 P.C.E. of the B.Sc. degree, in addition to the submission of a practicum portfolio. At the completion of their B.Sc. degree, admission to OSERUT is guaranteed provided that the ETP student has obtained a G.P.A. of at least 2.5 on the best 15.0 P.C.E. courses of the B.Sc. degree.

CO-OPERATIVE PROGRAMS

The Division offers the Specialist Co-operative Program in Computer Science and the Co-operative Program in Physical Sciences. The Specialist Co-operative Program in Computer Science and the Specialist Co-operative Program in Physical Sciences are being integrated with the Physical Sciences Program.

Specialist (Co-operative) Program in Computer Science combines scientific and mathematical studies with work experience in research and service in private and public sectors. The Program assists students in preparing for permanent employment as well as for graduate study in computer science. For further details, contact the University of Toronto Coordinator of Co-operative Programs under Computer Science (page 55), and Coordinator of Co-operative Programs - General Information (page 65). For information on fees, work placements, and studying in the program, please see the Calendar section Co-op Programs - General Information, page 65.
CO-OPERATIVE PROGRAM IN PHYSICAL SCIENCES

Supervisor: W.A. Gough
Co-supervisor: R. Loudon

The Co-operative Program in Physical Sciences allows students to combine their chosen academic program with an integrated and complementary work experience. Students are required to complete any one of the Specialist Programs offered by the Division, except those in Computer Science, or an approved combination of two Major Programs within their 2000-level degree program. They will also complete three work terms of four months each, as well as a specially designed series of advancement seminars. The overall purpose of the Co-op Program is to provide for students an educational milieu that will allow them to develop as highly qualified scientists, with excellent experience in both the academic and workplace environments.

Computer Science students will apply to and be registered in the separate Specialist and Co-op Programs in Computer Science. The Computer Science Specialist Program may not be included in the Physical Sciences Co-op.

Admission to the Program

For 2002/2003, a limited number of students may apply for admission to 2nd Year of the Program. They must:

- Achieve a G.P.A. of at least 3.0 (2.5 for students applying to enter the Specialist Co-op Program in Environmental Science in 2002/2003 only) from at least 3.0 F.C.C.E.'s.
- Be enrolled in both courses required for their chosen Program(s).
- Agree to participate in the 1-year Co-op Tutorial before going on work terms.
- Further information on how to apply is on the Physical Sciences website and may be obtained from the Co-op Coordinator.

Eligible Programs of Study:

Students may take any of the Specialist Programs offered in the Division of Physical Sciences, except those in Computer Science. Currently, these Programs are:

- Biological Chemistry
- Chemistry
- Environmental Science (with streams of Environmental Geosciences, Environmental Biology and Environmental Chemistry)
- Mathematics
- Mathematics and Its Applications
- Combinatorial Mathematics and Computer Science (Co-op Teaching)
- Physical and Mathematical Sciences
- Physics and Its Applications (with concentrations in Astronomy and Physics, Physics and Physics Teaching)

Alternatively, with the approval of the Co-op Supervisor of Studies, students may select one of the Major Programs offered in the Division of Physical Sciences, except for Computer Science, as their primary major, and take this in combination with a second Major Program thus fulfilling the requirements for the 20-credit course.

Currently, the eligible Major Programs are:

- Astrophysics and Physics
- Biochemistry
- Chemistry
- Environmental Science (with streams of Environmental Geosciences, Environmental Biology, and Water Science)
- Mathematical Sciences
- Physical Sciences

The second major may be from those offered in the Division of Physical Sciences, or from another Division. All double-major combinations must be discussed with and approved by the Supervisor of Studies. The second major may be in Computer Science. Students must meet all the requirements for admission to and continuation in this or any other limited enrollment Major Program.

For such students, requirements for admission, and requirements, please refer to the sections of the Calendar related to each discipline. All program requirements must be approved and confirmed each year by the Supervisor of the Co-op Program and the Supervisor of the particular program(s).

Students are individually responsible for ensuring that they have correctly completed all program and degree requirements for graduation.

Work Terms

To be eligible for their first work term, students must have completed at least 7.0 F.C.C.E.'s and have completed the Introduction to Physical Sciences Co-op Tutorial. Students will work in an area closely related as possible to their academic Program. If a student is taking a double-major Program, and if the second major is in Computer Science or in another Division, the work placement areas will be primarily associated with the primary Physical Sciences major. Students are not permitted to complete more than one summer work term.

PROGRAMS AND COURSES

Discipline Representative: C.C. Dyre
(416-287-7206)

The Program is offered by Physical Sciences. Emphasis is on traditional subject areas. The aim is to provide students with an integrated view of science. The Early Teacher Project and the Co-operative Programs offered in the Division build upon this interdisciplinary theme.

SPECIALIST PROGRAM IN PHYSICAL AND MATHEMATICAL SCIENCES

Supervisor: M.J.G. Lee (416-287-7246)

This Program provides a framework of courses in the Physical Sciences based upon a firm Mathematical foundation, relating Astronomy, Chemistry, Computer Science, Physics and Statistics. It prepares students for careers in teaching, industry, and government as well as for further studies at the graduate level.

NOTE: The two previous streams of this Program have been withdrawn. Students currently enrolled in Stream A (Mathematical Sciences Stream) may, with the advice of the supervisor (E. Moore, 416-287-7267), complete the Program or transfer to the new Program, Mathematics and Its Applications. See page 146 for Program listing. Students currently enrolled in Stream B (Physical Sciences Stream) should seek the advice of the supervisor (M.J.G. Lee, 416-287-7246) with respect to completing the Program.

First Year:

ASTA01Y
Introduction to Astronomy

CHMA22Y
General Chemistry

MATHA1H
Linear Algebra I

MATHA2H
Calculus

PHYA1H
Dynamics of Classical Systems

PHYA2H
Principles of Modern Physics

Second Year:

MATHB3H
Linear Algebra II

MATHB4H
Techniques of the Calculus of Several Variables

PHYB1H
Electricity and Magnetism

PSCB0H
Infermation of Science

PSCB3H
Computer Programming

Second or Third Year:

ASTB2H
Solar System and Stellar Astronomy

CIMB2Y
Introduction to Physical Chemistry

CSGC3H
Computer Organization

MATHB4H
Techniques of the Calculus of Several Variables II

MASS84H
Ordinary Differential Equations

PHYB24H
Electricity and Magnetism

STAR22H
Statistics

Third and Fourth Year:

ASTC22H
Galactic and Extragalactic Astrophysics

CSGC50H
Numerical Algebra and Optimization

CSGC51H
Numerical Approximation, Integration and Ordinary Differential Equations

MATHB6H
Linear Programming and Optimization

MATHB9H
Differential Equations

MATHB9I
Stochastic Differential Equations

PHYS23H
Physics Laboratory

PHYC0H
Vibrations and Waves

PSGD0H
Physical Principles of Modern Technology

PSCD0H
Current Questions in Mathematics and Science: Introduction to Probability Theory and Mathematical Statistics

NOTE: PSCD0H is a required course for ETP students

MAJOR PROGRAM IN PHYSICAL SCIENCES

Supervisor: M.J.G. Lee (416-287-7246)

The Major Program in Physical Sciences is intended for students desiring a general background in the physical sciences (with emphasis in the area of astronomy, physics and physical chemistry) but who do not intend to pursue graduate studies.

The Program requires 8 full-course equivalents as follows:

First Year:

ASTA01Y
Introduction to Astronomy

CHMA22Y
General Chemistry

MATHA1H
Linear Algebra I

MATHA2H
Calculus

PHYA1H
Dynamics of Classical Systems

PHYA2H
Principles of Modern Physics

Some of these can be deferred to second year but their prerequisites for second and third-year courses must be carefully checked.
Physics is the study of the basic laws that govern how natural objects move and interact with each other. The effect on a star or on the motion of a planet or, of the Earth on the motion of a satellite, or of a nucleus on a nucleus, can be accurately described by the laws of physics. Although Newton’s laws of motion adequately describe some of these situations, in most cases it is necessary to apply more recently discovered refinements of these laws - quantum mechanics and the theory of relativity, together with the understanding of electric and magnetic effects so beautifully synthesized in Maxwell’s theory of electromagnetism.

From these basic principles many of the properties of gases, liquids, solids, plasmas, and nuclear matter can be related to the interactions among the individual units of which these forms of matter are composed. Physics allows us to describe the properties of light, sound and heat up to the points where these enter our senses, as well as x-rays, radio, cosmic and other radiations of which we are not directly aware. The remarkable properties of some materials under extreme conditions of temperature and pressure, and of other materials when an electric current passes through them, form the basis of a wide range of applications of the subject.

It is possible to develop, in mathematical language, theories that so accurately describe physical phenomena that they may be used to predict the results of many carefully controlled experiments. The study of physics, therefore, involves both mathematics and the techniques of experimentation.

At the University of Toronto at Scarborough, students who are interested in Physics can take the Specialist Program in Physical & Mathematical Sciences, the Specialist Program in Physics and its Applications, the

Specialist Program in Computer Science and Physical Sciences (Computer Science and Physics stream), or the Major Program in Physical Sciences. Note that the last two years of the Specialist Program in Physics and its Applications are taught on the St. George campus. Also, there are a number of other Specialist programs associated with the Department of Physics. These include Specialist in Biophysics, Chemical Physics, Computer Science and Physics, Geology and Physics, Earth Systems, Physics & Environment and Planetary Science. Students interested in any of these options should consult with the Program Supervisor, Professor Martin Lee within the first week of classes.

NOTE: MATA26Y is the preferred companion for PHYA10H and PHYA23H, although MATA29Y is an acceptable alternative. However, only MATA26Y will serve as a prerequisite for higher-level MAT courses.

Therefore, students contemplating a Program that contains MAT courses beyond the A-level must take MATA26Y.

Please refer to the Physical Sciences Scarborough preamble on page 162 for a list of the Programs offered.

**SPECIALIST PROGRAM IN PHYSICS AND ITS APPLICATIONS**

Sponsor: M.G. Lee (416-287-2746)

**NOTE:** Each of the streams of this Program is designed to lead to Honours Specialist certification in Physics. Courses denoted as PHY2NN, where "N" is a number, are offered on the St. George campus. Please refer to the "Early Teacher Project" section of the Calendar (page 162) for details on this course permission at OSUITC, University of Toronto.

**First Year - 3.5 P.C.E.**

ASTA07Y Introduction to Astronomy

PHYA10H Dynamics of Classical Systems

PHYA21H Principles of Modern Physics

MATA26Y Calculus

MATA23H Linear Algebra 1

**Second Year - 3.5 P.C.E.**

ASTB21H Solar Systems and Stellar Astrophysics

PHYB21H Electricity and Magnetism

PHYB23H Physics Laboratory

MATB41H Techniques of the Calculus of Several Variables I

MATB43H Techniques of the Calculus of Several Variables II

PSCB57H Introduction to Scientific Computing

**Third & Fourth Years - 6.5 P.C.E.**

Teaching Concentration

ASTC22H Galactic and Extragalactic Astrophysics

PHYC20H Vibrations and Waves

PHY252H Thermal Physics

MATB44H Ordinary Differential Equations

or

MATD244H Ordinary Differential Equations

**Two of:**

AST210H History and Nature of Astronomical Discovery

AST251H Life on Other Worlds

AST252H Introduction to Astrophysics

AST253H Practical Astronomy

Free of:

PHY303H Electronics Lab I

PHY307H Computational Physics

PHY315H Radiation on Planetary Atmospheres

PHY326H Modern Physics

PHY346H Intermediate Biophysics

PHY351H Classical Mechanics

PHY352H Electromagnetic Theory

PHY355H Quantum Mechanics I

**An additional 1.0 P.C.E. from:**

ENV357Y Physics and Chemistry of Planet Earth

JPA309H Introduction to Archæometry

JPA310H Physics and Archaeology
PHYS220H Principles of Modern Physics
An introduction to modern physics for those who have completed either PHYS110H or PHYS111H.

Electric and magnetic fields, electromagnetics, waves, special theory of relativity, universality of the speed of light, Lorentz transformation, relativistic mechanics, Fermi's quantum physics: the wave nature of matter, particle nature of light, quantum states, atomic spectra, introduction to quantum mechanics, interpretation of the wave function, nuclear structure, energy from nuclear fission and fusion.

Two lectures and one tutorial every week.

Exclusion: PHYS261H
Prerequisites: PHYS110H or PHYS111H
Corequisites: MAT236Y or MAT237Y

PHYS261H Electricity and Magnetism
A study of Coulomb's law, electric fields, Gauss's law, electric potential, capacitance, dielectrics, magnetic forces and fields, induction, magnetism, Faraday's law, displacement current, Maxwell's equations.

Exclusion: PHYS221H
Prerequisites: PHYS112H (PHYS111H) or PHYS111H and MAT240H
Corequisites: MAT236Y or MAT237Y

PHYS262H Physics Laboratory
Experiments in basic electricity and magnetism, optics, solid state physics, atomic physics and modern physics. A six-hour laboratory once every two weeks.

Prerequisite: PHYS220H (PHYS221H) or PHYS112H
Corequisites: MAT236Y or MAT237Y

PHYS263H Introduction to Quantum Physics
Fundamentals of Quantum Mechanics applied to Physical Problems.

Prerequisites: PHYS262H, PHYS311H, PHYS221H, PHYS220H, PHYS221H or MAT237Y
Corequisites: PHYS262H

PHYS264H Mathematical Physics
A study of harmonic motion, damped, driven and coupled oscillators; standing and traveling waves; interference and diffraction; normal modes; reflection and transmission of waves.

Exclusion: PHYS263H
Prerequisites: PHYS211H, MAT236Y, MAT237Y
Corequisite: MAT236H

Political Science 171

Political Science (B.A.)

Faculty List
E.G. Andrew, B.A. (British Columbia), Ph.D. (London), Professor Emeritus
S.J. Coleman, M.A. (Ont.), Professor Emeritus
R. Mazure, B.A., B.Ed. (New Brunswick), M.A. (Ont.), Ph.D. (Harvard), Professor
A. Rubenstein, A.B. (Allegheny), M.A., Ph.D. (Chicago), Professor
G. Shorey, B.A., M.A., A.Bert, P.D. (British Columbia), Professor
S. Solomon, B.A. (McGill), M.A., Ph.D. (Columbia), Professor
J. Trigheim, B.A., M.A., Ph.D. (Toronto), Professor
P. Kanigian, B.A. (Toronto), M.A. (London), D.Phil. (Oxford), Associate Professor
Discipline Representatives/Supervisor of Studies: J. Trigheim (416-287-7297)

Contemporary states and societies are beset by political crisis and change. International relations have become unstable and unpredictable as the Cold War has ended and a new world order has yet to be constructed. The sovereignty of nation-states and their capacity to implement national policies of economic and social welfare are being eroded by transnational forces of the new global economy. Religious and ethnic nationalism divides many countries, and even in historically stable liberal democracies political mobilization by race, ethnicity, language, and gender challenge the legitimacy of established cultural and political relationships. Potentially catastrophic problems, such as exploding populations, proliferation of nuclear weapons, and environmental degradation, threaten the ability of national governments and international organizations to assure human survival. Dealing with these problems is a fundamental question for citizens and their governments. In its teaching, research, and community service, the discipline of Political Science seeks to help in meeting this need.
Political Science is the study of enduring issues of power and authority, citizenship and governance, justice and legitimacy in ancient and modern states and societies. The field of Political Science is divided into the following sub-fields: Canadian Politics, Comparative Politics (Developing and Developed Countries), International Relations and Political Theory. In the area of Canadian Politics, students will learn about the institutional foundations of the Canadian political process. Some of the specific topics dealt with include national unity, elections and political parties, environmental and social policy, and the impact of the global economy on national sovereignty. Courses in comparative politics deal with the problems of political change and development in areas such as Asia, Europe, Latin America, and the Middle East. Political participation and mobilization, transitions to democracy and ethnic and religious conflict are some of the themes dealt with in comparative politics courses. International relations is devoted to studying the foreign policies of particular nation-states and the patterns of conflict and co-operation among states. Political theory explores the ideas, such as justice and legitimacy, that are fundamental to political thought and practice, giving special attention to reading and interpreting the classic expositions of politics from ancient Greek philosophers to post-modern social theorists.

**SPECIALIST PROGRAM IN POLITICAL SCIENCE**

Applications for admission to the Specialist Program are accepted after students have completed at least four full-course equivalents in Political Science courses (not more than one full-course equivalent at the A-level can be counted towards Program requirements).

1. POLS10Y: Classic Texts in Political Theory
2. POLS15H or POLS50Y (Students may take both)
3. At least two of the following: POLS50Y, POLS80Y, POLS91Y, POLS92Y
4. Two political science full-course equivalents at the C- and/or D-level

**MINOR PROGRAM IN POLITICAL SCIENCE**

This plan requires the completion of at least four full-course equivalents above the A-level in Political Science. 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).


E. Two political science full-course equivalents at the C- and/or D-level

Students who are completing their degree Program in the Specialist Program in Political Science may not take more than fourteen full-course equivalents in Political Science. In selecting courses from other disciplines, they should consult with the Supervisor or with a member of the Political Science staff.

**MAJOR PROGRAM IN POLITICAL SCIENCE**

Applications for admission to the Major Program are accepted after students have completed at least four full-course equivalents (that is, generally after completing the first year of the degree Program). Applicants must have completed one full-course equivalent from among the A-level courses in Political Science listed below.

Students must complete at least seven full-course equivalents in Political Science, including:

1. One full-course equivalent from among the A-level political science courses (not more than one full-course equivalent at the A-level can be counted towards Program requirements).
2. POLS10Y: Classic Texts in Political Theory
3. POLS15H or POLS50Y (Students may take both)
4. At least two of the following: POLS50Y, POLS80Y, POLS91Y, POLS92Y
5. Two political science full-course equivalents at the C- and/or D-level

**SPECIAL PROGRAM IN POLITICAL SCIENCE AND ECONOMICS FOR MANAGEMENT STUDIES**

(see under Economics for Management Studies)

NOTE: Not all A-level half-courses are offered every year. Expected availability of courses for this and the following academic year is indicated below.

**MAJOR PROGRAM IN PUBLIC POLICY**

The Major Program in Public Policy equips students with the analytical and methodological skills to secure employment as policy analysts in government, businesses, and non-governmental sectors, or to continue to graduate training in public policy.

The Program is cross-disciplinary, public policy analysis is the exercise of applying the theoretical frameworks and positive and normative methodologies of the social sciences and humanities to understand the development, implementation, and evaluation of public policy. It requires the ability to think clearly and critically, to design and execute research projects, to analyze both quantitative and qualitative data, and to write clearly. It also requires an understanding of the context, institutions, and processes of policy-making and implementation, as well as concepts and criteria for policy evaluation.

Students must pay careful attention to the prerequisites for higher level courses.

**Course requirements:**

Students must complete 6.0 F.E.C.S. from the following list:

1. 0.5 F.E.C.S. in Computer Science: one of:
   - CSCA02H: The Why and How of Computing
   - CSCA06H: Introduction to Computer Programming
   - CSCA08H: Introduction to Computer Science
2. SOCAS1Y: Introduction to Sociology
3. 3.0 S.C.E. in Quantitative Data Analysis selected from the following list:
   - MGMT10H: Managerial Methods in Management
   - PSYB07H: Data Analysis in Psychology
   - ANTC23H: Quantitative Methods in Anthropology
   - STAB22H: Statistics
   - SOCJ26H: Social Statistics
   - 20SAGH: Geographic Information Systems and Empirical Reasoning
4. 1.0 F.E.C.S. in Social Theory
5. 1.0 F.E.C.S. in Research Methods
6. POLS50Y: Canadian Politics
7. 0.5 F.E.C.S. from among the following:
   - ECON35H: Economic Aspects of Public Policy
   - ECMB31H: Public Decision Making
   - GURB10H: Planning in Canada
   - POLC36H: Policy-Making and Policy
   - POLC37H: Policy in Canada
8. 1.0 F.E.C.S. at the C- or D-level from among the following list:
   - ANTIC32H: Political Anthropology
   - ANTIC49H: Law and Society
   - ANTIC51H: Medical Anthropology
   - ANTIC91H: Medical Anthropology II
   - ECON23H: Economics of the Public Sector: Taxation
   - ECON232H: Economics of the Public Sector: Expenditure
   - ECON232B: Labour Economics
   - PHL191H: Theories of Human Nature
   - PHL258H: Seminar in Philosophy: Cultural Criticism
   - PHL341H: The Politics of the Environment
   - POLC34Y: Environmental Relations in Canada
   - POLC35H: Health Care Policy
   - POLC35Y: The Political Economy of Health Care
   - POLS50H: Political Interests
   - POLS51H: Political Identity, and Policy
   - POLD17Y: Canadian Political Ideas
   - SOCSC0H: Sociology of Gender and Work
   - SOCSC2H: Comparative Ethnic and Race Relations
   - SOCSC26H: Sociology of Urban Life
   - SOCC35H: Environment and Society
   - URBAN1H: Urban Residential Geography
   - URBAN2H: Cities, Conservation
   - URBAN3H: Urban Political Geography
   - URBAN8H: Urban Transportation Policy Analysis
   - URBAN80H: Urban Development
   - URBAN90H: Development and Fission of Metropolitan Regions

4. 1.0 F.E.C.S. in Social Theory
5. 1.0 F.E.C.S. in Research Methods
6. POLS50Y: Canadian Politics
7. 0.5 F.E.C.S. from among the following:
   - ECON35H: Economic Aspects of Public Policy
   - ECMB31H: Public Decision Making
   - GURB10H: Planning in Canada
   - POLC36H: Policy-Making and Policy
   - POLC37H: Policy in Canada
8. 1.0 F.E.C.S. at the C- or D-level from among the following list:
   - ANTIC32H: Political Anthropology
   - ANTIC49H: Law and Society
   - ANTIC51H: Medical Anthropology
   - ANTIC91H: Medical Anthropology II
   - ECON23H: Economics of the Public Sector: Taxation
   - ECON232H: Economics of the Public Sector: Expenditure
   - ECON232B: Labour Economics
   - PHL191H: Theories of Human Nature
   - PHL258H: Seminar in Philosophy: Cultural Criticism
   - PHL341H: The Politics of the Environment
   - POLC34Y: Environmental Relations in Canada
   - POLC35H: Health Care Policy
   - POLC35Y: The Political Economy of Health Care
   - POLS50H: Political Interests
   - POLS51H: Political Identity, and Policy
   - POLD17Y: Canadian Political Ideas
   - SOCSC0H: Sociology of Gender and Work
   - SOCSC2H: Comparative Ethnic and Race Relations
   - SOCSC26H: Sociology of Urban Life
   - SOCC35H: Environment and Society
   - URBAN1H: Urban Residential Geography
   - URBAN2H: Cities, Conservation
   - URBAN3H: Urban Political Geography
   - URBAN8H: Urban Transportation Policy Analysis
   - URBAN80H: Urban Development
   - URBAN90H: Development and Fission of Metropolitan Regions
The course examines the institutional foundations of Canadian politics and government and the political channels which link Canadian citizens and their governments. The constitution, Parliament, the public service, the federal system, the Charter of Rights and Freedoms, and the role of the courts are given close attention. The electoral system, political parties, interest groups, and the mass media are examined for their efficacy in enabling Canadians to render their governments responsible and responsive. The objective of the course is to enable students to acquire a good grasp of our system of national governance in the late twentieth century.

Two hours of lecture per week and a one hour tutorial per week.

Exclusions: POL3040Y, POL3010Y, POLIGY, POL3010Y

G. Moghadam

POL3010Y Classical Texts in Political Theory

An examination of central political texts from Plato's Republic to Locke's Second Treatise, Rousseau's Social Contract and笛卡尔的Discourse on Method, and Burke's Reflections on the Revolution in France. Two hours of lecture per week and a one hour tutorial per week.

Exclusion: POL3010Y

POL3000X International Relations

A study of the nature of the international system, the factors that motivate foreign policies, and the institutions for the conduct of international affairs. Two hours of lecture per week and a one hour tutorial per week.

Exclusion: POL3010Y

Prerequisites: Not open to first year students without permission of the instructor T.B.A.
POLSCI 102G Public Policy Making
A study of current theories of public policy-making and the processes that are involved in making public policies. Policy processes of collecting new information, forming policy decisions, and implementing and evaluating governmental programs are examined using specific cases of public policy-making in Canada.
Exclusion: POL 463G, POL 465G
Prerequisites: POL 215H or POL 350Y (POL 350Y)
R. MacKer

POLSCI 105H Public Policy in Canada
A survey of historical development and contemporary patterns of public policy in Canada. Policy studies focus on changing problems of public order and criminal justice, the shift in managing the Canadian economy from Keynesian policies to monetarism, the creation of the Canadian welfare state and the impact of current fiscal constraints on healthcare, the role of public education in Ontario, official languages and human rights, and changing approaches of Canadian government to external relations and national security with the end of the Cold War and the rise of new global capitalisms.
Exclusion: POL 260Y, POL 265Y
Prerequisites: POL 215H or POL 350Y
R. MacKer

POLSCI 105Y Modern Political Theory
A study of the major political philosophers of the nineteenth and twentieth centuries. Particular emphasis on the works of Karl Marx, J.S. Mill, and Friedrich Nietzsche. The agenda will shift to examining major political writings of several major twentieth-century theorists. Two hours lecture per week.
Exclusion: POL 205Y
Prerequisite: POL 215Y or PHIL 10H or SOC 205Y

POLSCI 107Y Political Analysis
An examination of the methods of analysis used in the empirical study of politics. The purpose of the course is to enable the student who reads political literature to identify underlying schemes of acts and assumptions, to differentiate good from poor logic of argument, 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".
Two hours lecture/seminar per week.
Prerequisite: One course in Political Science.

POLSCI 108Y American Foreign Policy
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 formalized, and its application to a number of specific regional and policy problems in the world.
Prerequisite: POL 280Y or POL 287Y
A. Ruben

POLSCI 112Y Russian Government and Politics
The development of Russian political and social institutions since 1917, with emphasis upon the process of modernization and its effects. The course examines the formation and consolidation of the Russian political order and the urgent problems confronting Russian society today.
Two hours of class per week.
Exclusion: POL 262Y or POL 268Y
Prerequisite: One F.E. B-level Political Science course.

POLSCI 127Y The New International Agenda
An examination of issues attracting attention from scholars and policy-makers in the post-Cold War world, as well as newer approaches for studying and managing them. The issues the course would cover would include management of international environmental problems, the status and treatment of women in politics, society, and the global economy; demographic change, migration, and refugees, emerging and re-emerging infectious diseases, non-proliferation of weapons of mass destruction, the environment, chemical, biological, and terrorism, law enforcement, and its evolution. A prerequisite: POL 280Y or equivalent.

POLSCI 128Y Development Studies: Political and Historical Perspectives
A study of the historical and political perspectives on the practice of development. This course is designed to provide students with an opportunity to develop their skills in the study of development practice. After an examination of some of the classical writings in development theory, the main part of the course will be the placing of development practice in historical perspectives, focusing on both the colonial/imperial context and the post-colonial context. In both, attempts will be made to examine interventions and their consequences in a variety of different spheres of activity - health, agriculture, industry, and governance. The course will conclude with a more contextualized examination of the meaning of "development". Throughout the course, effort will be made to expose students to some of the more seminal "great works" in development studies. The course will be designed to interest students in completing an independent research project that will include seminar presentations, critical book reviews, and a final paper on the meaning of "development".

POLSCI 129Y Topics in Canadian and Comparative Politics
A seminar course that explores selected issues of Canadian politics from a comparative perspective. The topics in this course vary depending on the instructor.

POLSCI 134Y Selected Topics on Developing Areas
This seminar course focuses upon the relationship between market reform and political change in Latin America. Topics include the role of transnational elites, popular mobilization and gender issues. Case studies include Mexico, Peru, Bolivia and Chile.
Prerequisite: A Social Sciences or Humanities course on the Third World or Development.

POLSCI 140Y Supervised Research
A research project under the supervision of a member of faculty that will result in the completion of a substantial report or paper acceptable as an undergraduate senior thesis. The student and assignee faculty member are required to undertake a supervised research project in the Spring term. The student is responsible for finding a faculty member who is willing to supervise the project, and the student must obtain consent from the supervising instructor before registering for this course. During the Fall term the student must prepare a short research proposal, and both the supervising faculty member and the Supervisor of Undergraduate Studies must undertake a research proposal prior to the first day of classes for the Spring term.

POLSCI 155Y Supervised Reading
Advanced reading program in special topics. This course is meant only for those students who, having completed the available basic courses in a particular field of Political Science, wish to pursue further
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human thought. Philosophers, artists, novelists, theologians and others have sought the answer through a variety of means. Psychology uses the methods of scientific inquiry to address these questions. The issues 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 alternative courses of action; how they respond to motivating forces; how they are affected by the presence of other organisms in social settings; how their behavior 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 Program in Psychology includes courses from each of the main sub-areas within this discipline. The program 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 (PSYD897) in their undergraduate program. The Specialist Co-operative Program in Psychology and its Applications offers three streams, one in Cognitive and Behaviour, another in Public Opinion and Behaviour, and a third in the field of Developmental Disorders. Admissions to the program, which involves practical work experience, are limited.

The Specialist Program in Psychology is designed to introduce students to the main areas within the discipline. The Minor Program is designed for students who are interested in a less intensive exposure to the field. Often, students desire to concentrate their studies in two areas, in which case a double Major Program combining psychology with another discipline is ideal. Students particularly interested in the relation of brain to behaviour should consider the Specialist in Cognitive Science described earlier in this Calendar. Those particularly interested in the study of knowledge - language, communication and inquiry - would wish to consider the Major and Specialist Programs in Cognitive Science described earlier.

Planning your Program in Psychology

Students should be aware that the A, B, C, D course structure in Psychology dictates the courses that must be taken, but not the year of study in which a given course must be taken. That is, A, B, C, and D do not correspond to first, second, third and fourth year. For example, it is recommended that PSY100Y be taken consecutively in the two terms of second year. Students should be aware that with the exception of PSY100Y and 200Y, all other courses in the Faculty of Arts and Science correspond to B-, C-, or D-level and all 400- series courses 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 Program Supervisor can be very valuable in this regard.

Courses in Neuroscience

Students interested in including Neuroscience courses in their Psychology Program should consult the Neuroscience section for details.

First-Year Students in Psychology

PSY100Y recommended in first year if intending to pursue a Specialist or Major Program in Psychology.

SPECIALIST PROGRAM IN PSYCHOLOGY

Supervisor: D. Ben (Office 5538)

The Program requires completion of 12.5 full-course equivalents, and fulfills the Program requirements for the 4-year B.Sc. degree in Psychology.

A. 12.5 full-course equivalents in Psychology, as follows:

1. PSY100Y Introduction to Psychology (1 full-course equivalent)

2. 2.0 full-course equivalents in Psychology

(a) PSY100Y Data Analysis in Psychology

(b) PSY200Y Advanced Data Analysis in Psychology

3. Laboratory Methods (1.5 full-course equivalent)

(a) PSY301H Psychological Research Laboratory

(b) one half-course (.5 full-course equivalent) from among the following:

PSYC11H Social Psychology Laboratory

PSYC26H Developmental Psychology Laboratory (PSYC26H)

PSYC40H Learning Laboratory

PSYC32H Experimental Psychology Laboratory

NROK63H Neuroscience Laboratory

POL640H Comparative Public Policy
Pre-requisite: One FCE in the B. or C-level in comparative or Canadian politics

POL774Y Canadian Political Ideas
Pre-requisite: POL505Y or POL537Y or POL674Y or HIST40Y

Psychology (B.Sc.)

Faculty List

G.B. Birdman, B.Sc. (CNUI), Ph.D. (NYU), Professor Emeritus
J.E. Foisy, B.A., Ph.D. (Sydney), Professor Emeritus
B. Ferrari, B.A.(Toronto), M.A., Ph.D. (Michigan) Professor Emeritus
J. Bastiani, B.A. (McGill), Ph.D. (Cornell), Professor
G.C. Cerdan, B.A. (Michigan), M.A., Ph.D. (Wisconsin), Professor
K.K. Don, B.A. (Wellesley), Ph.D. (Minnesota), Professor
G.O. Dy, B.A. (Dewy), Ph.D. (California, Irvine), Professor
J.M. Kennedy, B.Sc., M.Sc. (Belfast), Ph.D. (Cornell), Professor
A. Kukut, A.B., M.A., Ph.D. (UCLA), Professor
C.M. MacLeod, B.A. (McGill), Ph.D. (Washington), Professor
N.W. Milgram, B.A. (UCLA), M.A., Ph.D. (McGill), Professor
T.L. Pett, B.S., M.A. (Louisiana), Ph.D. (Florida), Professor
M.A. Schmuckler, B.A. (SUNY- Stonybrook), Ph.D. (Cornell), Professor
M.C. Smith, B.A. (Toronto), Ph.D. (MIT), Professor
S. Jodoin, B.A. (New Brunswick), M.A., M.D. (Winnipeg), Associate Professor
S. Esh, B.Sc. (Wilfred Laurier), M.A. (Cornwall), Ph.D. (Cornwall), Assistant Professor
K.K. Zakarian, B.A., M.A., Ph.D. (York), Assistant Professor
D. A. Borr, B.A. (Florenta), M.A. (Regina), Ph.D. (Toronto) Senior Lecturer

Associate Chair: J. Bastiani

Psychology is the study of that branch of science which seeks to understand behaviour and mind. Why organisms display the observed behaviour - act as they do - is one of the most compelling and longstanding questions in the history of
MAJOR PROGRAM IN PSYCHOLOGY

Supervisor: D. Bors (Office 563B)

The Program requires completion of 6.0 full-course equivalents in Psychology, and normally results in the 3-year B.Sc. in Psychology.

1. PSYAOY Introduction to Psychology
   (1 full-course equivalent)

2. PSYB01H1 Psychological Research Laboratory
   (1.5 full-course equivalents)

3. PSYB07H1 Data Analysis in Psychology
   (1.5 full-course equivalents)

4. Students are required to select one half-
   course (1.0 full-course equivalent) from each of the two of the three content groups listed below.
   (a) Social, Developmental and Personality courses (listed in the 10-, 20-, or 30-series);
   (b) Learning and Physiology courses (listed in the 40- or 60-series);
   (c) Perception, Language, and Cognition courses (listed in the 50-series).

5. Additional course in Psychology (1.0 full-course equivalent at the C-level).

SPECIALIST (CO-OPTATIVE) PROGRAM IN PSYCHOLOGY AND ITS APPLICATIONS

Supervisor: D. Bors (Office 563B)

The Program combines academic studies in the field of psychology with practical work experience in settings in which scientific knowledge from various sub-fields in the discipline is applied. Students will enroll in one of the three streams: Cognition and Behaviour, Public Opinion & Behaviour, or Behaviour Disorders.

The work experience provided by the program enables students to explore career opportunities that may be pursued following the bachelor’s degree; however, completion of the program does not represent a professional qualification in psychology, which requires further study at the graduate level.

Work settings may also provide students with the opportunity to observe psychologists interacting with other professionals, hence providing new ideas and more informed basis for the selection of a post-graduate program appropriate to the student’s talents and interests. Some work settings will provide the opportunity for participation in applied research.

For information on admission, fees, work placements and standing in the Program, please see the Calendar section Co-operative Programs: General Information, page 65.

Work Terms

The program requires eight four-month terms, as follows:

1. PSYAOY Introduction to Psychology
2. PSYB01H1 Psychological Research Laboratory
3. PSYB07H1 Data Analysis in Psychology
4. (1.5 full-course equivalents)
5. Students are required to select one half-
   course (1.0 full-course equivalent) from each of the two of the three content groups listed below.
   (a) Social, Developmental and Personality courses (listed in the 10-, 20-, or 30-series);
   (b) Learning and Physiology courses (listed in the 40- or 60-series);
   (c) Perception, Language, and Cognition courses (listed in the 50-series).

6. Additional course in Psychology (1.0 full-course equivalent at the C-level).

SPECIALIST (CO-OPTATIVE) PROGRAM IN PSYCHOLOGY AND ITS APPLICATIONS

Supervisor: D. Bors (Office 563B)

The Program combines academic studies in the field of psychology with practical work experience in settings in which scientific knowledge from various sub-fields in the discipline is applied. Students will enroll in one of the three streams: Cognition and Behaviour, Public Opinion & Behaviour, or Behaviour Disorders.

The work experience provided by the program enables students to explore career opportunities that may be pursued following the bachelor’s degree; however, completion of the program does not represent a professional qualification in psychology, which requires further study at the graduate level.

Work settings may also provide students with the opportunity to observe psychologists interacting with other professionals, hence providing new ideas and more informed basis for the selection of a post-graduate program appropriate to the student’s talents and interests. Some work settings will provide the opportunity for participation in applied research.

For information on admission, fees, work placements and standing in the Program, please see the Calendar section Co-operative Programs: General Information, page 65.

Work Terms

The program requires eight four-month terms, as follows:

1. PSYAOY Introduction to Psychology
2. PSYB01H1 Psychological Research Laboratory
3. PSYB07H1 Data Analysis in Psychology
4. (1.5 full-course equivalents)
5. Students are required to select one half-
   course (1.0 full-course equivalent) from each of the two of the three content groups listed below.
   (a) Social, Developmental and Personality courses (listed in the 10-, 20-, or 30-series);
   (b) Learning and Physiology courses (listed in the 40- or 60-series);
   (c) Perception, Language, and Cognition courses (listed in the 50-series).

6. Additional course in Psychology (1.0 full-course equivalent at the C-level).

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   course (1.0 full-course equivalent) from each of the two of the three content groups listed below.
   (a) Social, Developmental and Personality courses (listed in the 10-, 20-, or 30-series);
   (b) Learning and Physiology courses (listed in the 40- or 60-series);
   (c) Perception, Language, and Cognition courses (listed in the 50-series).

6. Additional course in Psychology (1.0 full-course equivalent at the C-level).
8. Additional courses in Psychology (2.5 full-course equivalents)
   Students must complete at least one full-course equivalent in Psychology and two other
   full-course equivalents from among the following courses:
   (a) PSYD05H Psychology and Drama
   (b) PSYD21H Psychology and Health Science
   (c) PSYD22H Psychology and Human Development

9. Additional courses in Psychology (2.5 full-course equivalents)
   Students are required to take at least two full-course equivalents in Psychology and one
   additional full-course equivalent from the following courses:
   (a) PSYD50H Memory and Cognition
   (b) PSYD52H Cognition and Consciousness
   (c) PSYD53H Psychology and Language
   (d) PSYD54H Psychology and Culture
   (e) PSYD55H Psychology and Ethics
   (f) PSYD56H Psychology and Social Psychology
   (g) PSYD57H Psychology and Law
   (h) PSYD58H Psychology and the Environment

10. Additional courses in Psychology (2.5 full-course equivalents)
    Students are required to take at least two full-course equivalents in Psychology and one
    additional full-course equivalent from the following courses:
    (a) PSYD60H Memory and Cognition
    (b) PSYD62H Cognition and Consciousness
    (c) PSYD63H Psychology and Language
    (d) PSYD64H Psychology and Culture
    (e) PSYD65H Psychology and Ethics
    (f) PSYD66H Psychology and Social Psychology
    (g) PSYD67H Psychology and Law
    (h) PSYD68H Psychology and the Environment

11. Additional courses in Psychology (2.5 full-course equivalents)
    Students are required to take at least two full-course equivalents in Psychology and one
    additional full-course equivalent from the following courses:
    (a) PSYD70H Memory and Cognition
    (b) PSYD72H Cognition and Consciousness
    (c) PSYD73H Psychology and Language
    (d) PSYD74H Psychology and Culture
    (e) PSYD75H Psychology and Ethics
    (f) PSYD76H Psychology and Social Psychology
    (g) PSYD77H Psychology and Law
    (h) PSYD78H Psychology and the Environment

12. Additional courses in Psychology (2.5 full-course equivalents)
    Students are required to take at least two full-course equivalents in Psychology and one
    additional full-course equivalent from the following courses:
    (a) PSYD80H Memory and Cognition
    (b) PSYD82H Cognition and Consciousness
    (c) PSYD83H Psychology and Language
    (d) PSYD84H Psychology and Culture
    (e) PSYD85H Psychology and Ethics
    (f) PSYD86H Psychology and Social Psychology
    (g) PSYD87H Psychology and Law
    (h) PSYD88H Psychology and the Environment

13. Additional courses in Psychology (2.5 full-course equivalents)
    Students are required to take at least two full-course equivalents in Psychology and one
    additional full-course equivalent from the following courses:
    (a) PSYD90H Memory and Cognition
    (b) PSYD92H Cognition and Consciousness
    (c) PSYD93H Psychology and Language
    (d) PSYD94H Psychology and Culture
    (e) PSYD95H Psychology and Ethics
    (f) PSYD96H Psychology and Social Psychology
    (g) PSYD97H Psychology and Law
    (h) PSYD98H Psychology and the Environment

14. Additional courses in Psychology (2.5 full-course equivalents)
    Students are required to take at least two full-course equivalents in Psychology and one
    additional full-course equivalent from the following courses:
    (a) PSYD100H Memory and Cognition
    (b) PSYD120H Cognition and Consciousness
    (c) PSYD130H Psychology and Language
    (d) PSYD140H Psychology and Culture
    (e) PSYD150H Psychology and Ethics
    (f) PSYD160H Psychology and Social Psychology
    (g) PSYD170H Psychology and Law
    (h) PSYD180H Psychology and the Environment

15. Additional courses in Psychology (2.5 full-course equivalents)
    Students are required to take at least two full-course equivalents in Psychology and one
    additional full-course equivalent from the following courses:
    (a) PSYD190H Memory and Cognition
    (b) PSYD210H Cognition and Consciousness
    (c) PSYD220H Psychology and Language
    (d) PSYD230H Psychology and Culture
    (e) PSYD240H Psychology and Ethics
    (f) PSYD250H Psychology and Social Psychology
    (g) PSYD260H Psychology and Law
    (h) PSYD270H Psychology and the Environment
4. PSYC25H Scientific Communication in Psychology (5 full-course equivalents)
   (a) PSYC25H Theoretical Psychology
   (b) PSYC25H History of Psychology.

5. Courses at the B-level and/or C-level (3 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 groups listed below:
   (a) Social, Developmental and Personality courses (listed in the 10-, 20-, and 30-series); students in the Behavioural Disorders stream must take the following courses to meet this requirement:
      PSTD31H Introduction to Developmental Psychology
      and
      PSTD32H Introduction to Abnormal Psychology*
      (b) Learning and Physiology courses (listed in the 40- and 60-series); students in the Behavioural Disorders stream must take the following courses to meet this requirement:
      PSTD40H Behaviour Modification: Origins and Applications
      and
      PSTD40H Human Brain and Behavior*
      (c) Perception, Language and Cognition courses (listed in the 50-series; students in the Behavioural Disorders stream must take the following courses to meet this requirement:
      PSTD50H Sensation and Perception
      and
      PSTD51H Memory and Cognition*
      (d) Courses at the D-level (one full-course equivalent).
      Students in the Behavioural Disorders stream must include: PSYS25H Psychology and its Applications: Advanced Seminar
      and
      PSYS33H Neuropsychological Rehabilitation**
      and
      PSYS36H Drugs and the Brain
      and
      (e) 5 full-course equivalents from among the following courses:
      PSYC21H Advanced Developmental Psychology
      PSYC26H Developmental Psychology Laboratory
      The choice of the remaining 5 full-course equivalent is unconstrained.

5. Other Disciplines (2.0 full-course equivalents)
   Students must select at least two full-course equivalents at the B-level or higher in a discipline or disciplines other than Psychology. Students in the Behavioural Disorders stream must take:
   (a) NROB30H Neuroscience I: Cell Anatomy and Physiology
   and
   (b) NROB31H Neuroscience II: Learning and Motivation
   (c) The choice of the remaining 1.0 full-course equivalent is unconstrained.

* These courses must be successfully completed before the first work term.
** This course must be successfully completed before the second work term.

PSTD13Y Introduction to Psychology
A study of the basic principles and methods of contemporary psychology.
Using these elementary principles and methods, the student will seek to understand how organisms, both human and infra-human, perceive their environments, how their behaviour is modified 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, remembering, thinking, and reasoning; intelligence; language; motivation and emotion; social behaviour, personality, and abnormalities of behaviour and experience.

Three hours of lecture per week. Exclusions: PST100, PST200. NOTE: Please refer to the following websites for contact information for this course:
www.uneeds.uneed.ca/pst100
www.uneeds.uneed.ca/pst200

PSTD13Y Introduction to Social Psychology
Surveys social influence (conformity and obedience), prejudice, sexism, attitude change, group behaviour (crowding, crowd behaviour, groups), prejudice, sexism, attraction and competition, nonverbal communication, perception, attraction and competitions.
Social Psychology focuses on the problem of how an individual's feelings, thoughts, and behaviour are influenced by the presence of others. The course is designed to demonstrate phenomena of social behaviour and to present theory and research relating to these phenomena.

Three hours of lecture per week. Exclusion: PSTD20. Prerequisite: PST301Y J. Bazari

PSTD20H Introduction to Developmental Psychology
Developmental processes during infancy and childhood.
This course presents students with a broad and integrative overview of child development. Major theories and research findings will be discussed in order to understand how the child changes physically, socially, emotionally, and cognitively with age. Topics are organized chronologically beginning with prenatal development and continuing through selected issues in adolescence and life-span development.
Three lecture hours per week. Exclusion: PST210. Prerequisite: PST301Y J. Bazari

PSTD30H 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 science, artificial intelligence, and psychodynamic. The purpose of this course is to acquaint the student with the diversity of theoretical assumptions and research methods with which basic questions about human nature have been approached. Readings are from primary sources.
Three lecture hours per week. Exclusion: PSTD20. Prerequisite: PST301Y A. Kabbay

PSTD30H Abnormal Psychology
Definition and identification of abnormality, biocultural influences on attitudes, practices, theories, and research; a variety of psychopathologies; the development of hypotheses, model and theory, including genetic, psychobiological, stress, medical-psychiatric, psychosocial, social-learning, and sociocultural; classification systems, including problems in their reliability and validity; description of a variety of sources, psychoses, and other behavioural disorders of adults and children, including cognitive, emotional, sensory,
perceptual, psychomotor, and motor aspects; approaches, methods of investigation, and findings in psychological, psychophysiological, genetic, and epidemiological research; management, control, and modification of abnormal behaviour within and outside institutions, including pharmaceuticals, psychotherapeutic, learning-based, and social engineering approaches. The conceptual problem of defining abnormality and categorizing or labelling will be emphasized. Three hours of lecture per week. Exclusion: PSY241. Prerequisite: PSYA01Y K. Zalaudek

PSYB20H3 Human Brain and Behaviour
An examination of the neurological basis of human behaviour: an introduction to human neuropsychology.

The course focuses on the following: higher brain function in humans, hemispheric specialization, neuropathology of speech, disorders of the central nervous system (multiple sclerosis, epilepsy, damage to the frontal, parietal, occipital and temporal lobes, Alzheimer’s disease, neglect, and speech disorders); psychopharmacology and the biological basis of psychiatric disorders.
Two hours of lecture per week. Prerequisite: PSYA01Y T. Petti

PSYB200H3 Scientific Communication in Psychology
The development and enhancement of practical and professional skills based on current standard discourse in psychological science. The primary focus is on improving the student’s ability to think, organize information and arguments clearly, critically and effectively within the discipline and to understand the differences between scientific and non-scientific approaches to the study of behaviour. Related skills, such as strategies for long-term study, planning and self-assessment, will be incorporated.
This course is limited to students enrolled in the Psychology Specialist Program, and is recommended to be taken in the student’s third year.
Two one-hour lectures and one two-hour tutorial per week. Prerequisites: PSYB001H & PSYB002H Complimentary: PSYC06H J.E. Foley

PSYB200H3 Advanced Data Analysis in Psychology
This course is a continuation of PSYB07 and focuses primarily on issues related to the statistical analysis of psychological data. The course builds on a statistical analysis tool. The theory and practice underlying ANOVA will be discussed in a number of experimental design contexts ranging from situations where there is a single between-subject variable to situations where there are multiple independent variables, some within-subject and some between-subject. The related issues will include: non-parametric tests, as well as tests of the assumptions of the analysis of variance procedure. This course is highly recommended for all students contemplating a research career in psychology.
Three hours of lecture and one hour of tutorial per week. Exclusions: STAC52, PSY202. Prerequisites: PSYB001H and one additional B-level half-course in Psychology D. Bore

PSYC1103 Social Psychology Laboratory
Introduces conceptual and practical issues concerning research in social psychology, and provides experience with several different types of research.
This course is designed to consider in depth various research approaches used in social psychology (such as attitude questionnaires, observational methods for studying ongoing social interaction). Discussion and laboratory work.
One two-hour lecture per week. Limited enrolment: 25
Exclusion: PSY102.
Prerequisites: PSYB101H & PSYB102H K.P. Dion

PSYC1103 Advanced Social Psychology
A detailed examination of selected social psychological topics introduced in PSYC101.
This course examines the nature of attitudes, their development, organization and change. Practical issues associated with the measurement of attitudes in the laboratory and in public opinion surveys will be covered. Teaching method: one two-hour lecture per week.
Exclusion: PSY230.
Prerequisites: PSYB101H & PSYB102H plus one additional B-level half-course in PSY J. Basso

PSYC1103 Cross-Cultural Social Psychology
A survey of the role of culture in social thought and behaviour.
The focus is on research and theory that examines in which culture influences behaviour and cognition about the self and others, and cultural relativism. Differences in individualism and collectivism, independence and interdependence as well as other important orientations that differ between cultures will be discussed. Social identity and its impact on acculturation in the context of immigration will also be explored. The broadening of the possible world of the social psychological.
Prerequisites: PSYB001H & PSYB102H plus one additional B-level half course in PSY T.B.A.

PSYC1103 The Psychology of Emotion
Emotions are examined in everyday life and in relation to art, literature, and advertising. Nineteenth-Century ideas about emotion (peripheral and central theories) are discussed in anticipation of the Twentieth Century view of psychology, functionalism, behaviourism, social constructionism, and phenomenology. A contrast is drawn between category theories that focus on primary emotions, such as happiness and sadness, and dimensional theories that emphasize bodily states, including pleasure and arousal. The process of communicating emotion verbally and nonverbally is explored along with gender differences in emotional style.
One two-hour lecture per week. Exclusion: PSY364H.
Prerequisites: PSYB101H & PSYB102H G.C. Caposta

PSYC2003 Developmental Psychology Laboratory
This course introduces conceptual and practical issues concerning research in developmental psychology. Developmental psychology focuses on the process of change and growth across different phases of the life span.
In this course, there are diverse research methods, including techniques for studying infant visual learning, and other procedures for studying development in children, adolescents, and adults.
This course will cover a representative sample of some of these approaches.
One two-hour lecture per week. Limited enrolment: 25
Exclusion: PSY319.
Prerequisites: PSYB001H & PSYB002H & PSYB01H M. Schmelzle

PSYC3103 Clinical Neuropsychology
The applied science concerned with the behavioural expression of brain dysfunction. The course deals with common issues and the practical problems of identification, diagnosis, care, and treatment of brain damaged patients, affecting students the opportunity to familiarize themselves with the
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tools (e.g., neuropsychological tests) and science (e.g., normative data) used by clinical neuropsychologists. Lecture and

demonstrations of test administration and interpretation. One two-hour lecture per week.
Limited enrolment: 20
Exclusion: PSY250
Prerequisites: PSYB110 & PSYB210
J. Bassini

PSYC325H Clinical Neuropsychology Laboratory
The applied science concerned with the behavioral expression of brain dysfunction for students in the Behavioral Disorders stream of the Co-op Program in Psychology and its Applications. Lecture and demonstration material will be as described for PSYC311, Clinical Neuropsychology, but students will also complete a laboratory component. The laboratory will afford the student the opportunity for hands-on experience with a number of neuropsychological measures and will emphasize the learning of specific test administration and interpretation. One two-hour lecture and one two-hour laboratory per week.
Limited enrolment: 20
Exclusion: PSYC311
Prerequisites: PSYB110 & PSYB210 & PSYB250 & PSYB505 & PSYB650 & PSYB655 & PSYB755

PSYC330H Psychology and the Law
The course will focus on the application of psychology to the law, particularly the potentials and limitations which influence the giving of testimony. One two-hour lecture per week.
Exclusion: PSYC311
Prerequisites: PSYB110 & PSYB210 & PSYB250 & PSYB505 & PSYB650 & PSYB655 & PSYB755

PSYB101H Psychology and the Law
An examination of the behavioural and neurological mechanisms underlying the phenomenon of drug dependence.
In Part I of the course, topics will include principles of behavioral pharmacology and neuropharmacology, pharmacological mechanisms of drug action, and psychotropic drug classification. Part II of the course will focus on the legal and ethical considerations of physical and psychological dependence, tolerance, sensitization, and reinforcement and abstinence. Two hours of lecture per week.
Exclusions: PSY620H & PCL614Y
Prerequisites: PSYB101H & PSYB650 plus one additional B-level half-course in PSY or JEF

PSYB215H Biological Psychology
An introduction to the problems and methods of theoretical analysis in psychology.
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 evaluate the current literature in theoretical psychology.
Two hours of lecture per week.
Exclusion: PSYB210
Prerequisites: PSYB101H or permission of the instructor
A. Kline

PSYB215H History of Psychology
A survey of developments in Western philosophy and science which influenced the emergence of modern psychology in the second half of the twentieth century.
The developments in these three basic problems are considered: mind-body, epistemology (science of knowledge), and behaviour/motivation/ethics. We begin with the ancient Greek philosophers who established the foundations of Western thought and science. The contributions of European philosophers and scientists from the Fiftieth through Nineteenth Centuries are then considered. Twentieth Century schools of thought are discussed including: psychoanalysis, functionalism, structuralism, Gestalt, behaviorism, and phenomenology.
Two hours of lecture per week.
Limited enrolment: 25
Exclusion: PSY100
Prerequisites: Two B-level half-courses in Psychology and PSYB101H or permission of the instructor
G. Capaldi

PSYB300H 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 an interest in having a prospective supervisor. Frequent contact is necessary. Students should be aware of the necessary and extensive library research and/or data collection will be required. Such a project will culminate in a written submission. Students must obtain a permission form from the Life Sciences Office (S2213) that is to be completed and signed by the intended supervisor, and returned to the Life Sciences Office. At that time, the student will be provided with an outline of the schedule and general requirements for the course. Written and/or oral supervision off-campus are further advised to verify first with the Supervisor of Studies that the prospective project supervisor currently holds a correspondence at the University of Toronto. Exclusions: PSY100, PSYB101, PSYB102, PSYB103, PSYB104
Prerequisites for PSYB99: COCC20, NBCC20, PSYB380, PSYB383

PSYB215H Socialization Processes
The processes by which an individual becomes a member of a particular social system (or systems). The course examines both the control of socialization (e.g., development of specific social behaviour) and the context in which it occurs (e.g., family, peer group, etc.). Material will be drawn from both social and developmental psychology.
Two hours of lecture per week.
Limited enrolment: 20
Exclusion: PSYB210
Prerequisites: PSYB101H & PSYB210 plus one C-level half-course in PSY
K. K. Dion
PSYD5693Thesis in Psychology
This course offers the opportunity to engage in a year-long research project under the supervision of an interested member of the faculty in Psychology. The project will culminate in a written report in the form of a thesis and a 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 mandatory to students planning to pursue graduate studies. Students planning to pursue graduate studies are especially encouraged to enroll in the course. Students must obtain a permission form from the Life Sciences Office (S221B) that is to be completed and signed by the intended supervisor, and returned to the Life Sciences Office. At that time, the student will be provided with an outline of the schedule and general requirements for the course. Students seeking supervision off campus will need to arrange co-supervision with a faculty member in Psychology at this campus.
Two hour meeting per week.
Exclusion: NBOE90, COQG10, PSY420
Prerequisites: PSY700H & PSY701H, Psychology Specialist, cumulative GPA of 3.3 or higher.
Pre-Co-requisite: 0.5 D-level course in Psychology.
Co-ordinator: M.C. Smith

COURSES NOT OFFERED IN 2002-2003
PSYB520H1Sensation and Perception
Exclusion: PSY280
Prerequisites: PSY101

PSY521H1Advanced Psychopharmacology
Exclusion: PSY313
Prerequisites: PSY706H1, PSY702H1, and one 1.0 or 1.5 additional B-level half-course in PSY

PLIC2H1Developmental Psycholinguistics
Exclusion: IELP3H1
Prerequisites: One F.C.E. in LIN and one F.C.E. in PSY

PSY530H1Neuropsychological Rehabilitation
Prerequisites: PSY112H1 or PSY113H1 or PSY707H1

PSY535H1Thesis in Music Psychology
Prerequisites: PSY704H1 and PSY707H1, and a PSY850-series half-course

Public Policy/Society & Environment 191

Society and Environment (B.A.)

Faculty List
F.D. Barton, B.Sc., M.A., (NYU), Ph.D. (CUNY), Professor
J. Finnegan, B.A., M.A. (Western), Ph.D. (Ohio State), Professor
S. Benton, B.A., M.A. (Cambridge), Ph.D. (Harvard), Professor

J.M. Miron, B.A. (Queen's), M.A. (Pembroke), Ph.D. (Toronto), Professor
E.C. Robit, B.A., MPh (London), Ph.D. (Toronto), Professor
G.E. Gligoroff, B.A., M.A. (Albetta), Ph.D. (British Columbia), Professor
M.P. Boren, B.A., Ph.D. (Sheffield), Associate Professor
M. Latou, B.A. (Kanses), M.A., Ph.D. (Toronto), Associate Professor
L. Sawchuk, B.A., M.A. (Manitoba), Ph.D. (Toronto), Associate Professor
S. Ungur, B.A. (McGill), M.A., Ph.D. (York), Associate Professor
S. Bamford, B.A. (Toronto), M.A. (McMaster), M.A., Ph.D. (Virginia), Assistant Professor

Discipline Representation/Supervisor of Studies: S. Bamford (416-287-7701)

The Program in Society and Environment often offers an interdisciplinary approach to environmental issues from the perspective of the social sciences. It assumes that the distinction between environment, as commonly understood, and the built, social, and political-economic environment is artificial, and that environmental problems are mostly created by human societies. A clear understanding of environmental issues from this perspective requires knowledge of social and political processes, of social theory, of the history of conservation, of planning and urban development, and of human ecology, as well as of natural environment processes. In this Program, the complex interactions between societies and environments are studied through a specialized course, social science methods and theories, which are applied specifically to the themes of: relations between humans and ecosystems; planning, politics, and policies for agriculture and food; and practices and policies for health. In order to pursue these themes, students can select from relevant courses in Sociology, Political Science, Geography, Anthropology, Environmental studies, Environmental Earth Sciences and other related disciplines. It therefore combines well with those disciplines for students who wish to combine Society and Environment with another Major.

MAJOR PROGRAM IN SOCIETY AND ENVIRONMENT
The requirements for this Program are eight full-course equivalents, as follows:
1. Social Science (SOC100)
2. Environmental Studies (ENV101)
3. Thematic course from: ANTH91, BMA567, BMA568, BMA569, HED557, HED558.
POL145H or POL199H, SOC101Y. These courses may not be counted towards the Program requirements, but may be prerequisites for higher level courses in the Program.

2. Focus courses. GGR208H1 (SOEO1Y), ANTB01Y, IDS250H1 plus one full-course equivalent from: ANTH11Y, ANTH15T, ANTH35Y, ANTH304Y, CLA300Y, EDS390H1, IDS300H1, GGR208H1, IDS300H1, SOC101Y, SOC201Y.

3. Methodology. One full-course equivalent from: SOC218Y, SOC280H1 or STAB22H1 or equivalent, ANT328Y, ANT3210, RES319H1, EDS319H1, SOC228L, SOAO1H.

4. Advanced courses. Three full-course equivalents from: ANTH320H1, ANTH346H1, ANTH359H1, ANT385H1, ANT168H1, BESC321H1, BESC421H1, GRC600H1, GRC610H1, GRC640H1, GRC650H1, EDS320H1, EDS320H1, PUC321Y, POL339Y, SOC379H1, SOED101H, WFT202H1.

GGR201Y3 Global Processes and Local Environments

Introduction to human geography through the changes and problems of global relationships and regional scales of activity. Concepts and methods of human geography will include geo-politics, human-nature relations, spatial analysis, the production of space, regionalism, landscape and place. These will be applied to the critical evaluation of how the globalization of agriculture, manufacturing, telecommunications, finance and trade, political institutions, popular culture, demographic and environmental changes interact with the growth and geopolitical regions and the quality of urban and rural environments. Particular attention will be paid to the sustainability of these interactions. Two hour lectures per week and one hour tutorial every second week.

Exclusions: GER404H, GER1101, SOAO1Y, M. Burch-E. Ralph.

GGR320H1 Environmental Conservation and Sustainable Development

The history and current status of environmental problems and conservation responses. The course deals with two main topics: the origins of environmental problems in the rise and subsequent decline of industrial capitalism, and environmental protection and policies. Themes include: changes in human-environment relations, trends in environmental problems, the rise of environmental awareness, ideologies of preservation and conservation, environmental activism and organizations, environmental policy from the local to the international scale, problems of sustainable development. Two hour lectures per week and one hour of tutorial per week.

Exclusions: GGR301H, GGR323H, SOEO1H, Prerequisites: GGR201H, (SOC201H) and one other A-level course (EESA) strongly recommended.

M. Burch

ANT301Y3 The Ecological Perspective in Anthropology

An examination of the relationships between human populations and cultural systems with their environments. Prerequisite: ANT101Y or permission of the instructor. Refer to Anthropology for complete course description.

IDS250H1 International Development Studies: Development and Environment

An introduction to the environmental consequences of development activities, with emphasis on tropical countries. Prerequisite: EESA101H

Refer to International Development Studies for complete course description.

SOEO1H1 Environmental Internship

This course offers students the opportunity to gain practical research experience as an intern with an environmental organization. Students will be required to arrange their own internship and to complete at least 50 hours of work per week. Evaluation will be based upon a written paper. Prerequisites: Completion of at least 10 FCE with permission of program supervisor.

Sociology (B.A.)

Faculty List

W. W. Iaquire, B.A. (LaSalle), M.A., Ph.D. (Catholic Univ. of America), Professor Emeritus
J. Harasym, B.A., M.A., (Western Ontario), Ph.D. (Ottawa State), Professor
R. O'Toole, B.A. (Leeds), PCOE (London), M.A. (McMaster), Ph.D. (Toronto) Professor
J. M. Neale, B.Sc. (London) PCOE (Leicester), M.A., Ph.D. (Alberta) Professor

M. Hammond, B.A. (California), M.A., Ph.D (Toronto), Associate Professor
P. C. Hinton, B.A. (University of the Witwatersrand), M.A. (Chinese Cultural University), Ph.D. (ECCLA), Associate Professor
A. Sewing, B.A., M.A. (Windsor), Ph.D. (York, Canada), Associate Professor
S. Unger, B.A. (McGill), M.A., Ph.D. (York, Canada), Associate Professor
R. B. Bentall, B.A. (York), M.A. (McGill), Ph.D. (UCLA), Assistant Professor
J. Hermer, B.A. (Western), M.A. (Carleton), D.Phil. (Oxford), Assistant Professor
P. Landolt, B.A., M.A. (York), Ph.D. (Johns Hopkins), Assistant Professor

Discipline Representative: I. Tanner

416-287-7255

Sociology is the scientific study of interaction among people, the social relations which they maintain, and the social groups which they form. Sociology attempts to explain how society is ordered, how it functions, and what accounts for social cohesion, social stratification, social mobility, and social change. It studies the consequences of co-operation, competition, and conflict. Sociologists may wish to take Sociology courses as a part of a general education, in anticipation of the usefulness of certain courses in future occupations or professions, or as part of a Specialist, Major or Minor Program.

The introductory course, SOEC01H, is intended to familiarize students with the distinctive theories, methods and questions of sociological analysis. In addition, the SOEC01H course provides a minimum background of knowledge about sociology, and hence is a prerequisite to all of the more advanced courses. Students who want to learn about certain areas of sociology which may be useful in later occupational situations may consult faculty advisors who are prepared to assist them in courses selection. There are no formal requirements for these special areas and they will not be designated on a student's record.

The faculty advisors for special areas of concentration are:

Social Work
Prof. A. Sevigny
Urban Studies
Prof. J. Harasym
Education
Prof. J. Tanner

PLANNING A PROGRAM IN SOCIOLOGY

Students are obliged to take required courses in the Major and Specialization programs as early in their careers as possible. For example, courses in SOEC01H and SOEO1H should be taken during the second year, and SOEC09...

should be taken during the third year. Failure to do so may lead to timetable conflicts and could prevent the completion of the Program. Students are reminded that they are not permitted to register in courses for which they have not completed the prerequisites indicated in the Calendar. They may only enter a course for which they lack the prerequisites by obtaining the permission of the instructor prior to registration. Instructors have the right to request any student ineligible for enrollment.

SPECIALIST (CO-OPTATIVE) PROGRAM IN SOCIOLOGY

Supervisor: S. Unger

416-287-7113

The Co-operative Program allows students to pursue an in-depth study of Sociology combined with two four-month work terms in areas complementary to the area of study. Placements can be made with research institutes, the private sector, public institutions, and not-government organizations.

This is a limited enrollment program. For information on admissions, fees, work placements, and standing in the program, please see the Calendar section: Co-operative Programs: General Information, page 65.

Work Terms

In order to be eligible for placement, students must complete a minimum of 9 FCE, including SOEC01H, SOEC01Y and SOEC09H and complete the Introduction to the Social Sciences Co-op Tutorial.

Course Requirements

Students must complete the requirements for the Major and Specialization Program (see below), with the following additional courses:

SOC228L Qualitative Methods in Social Research

This course may be counted in partial fulfillment of the requirements for the C- and D-level courses within the Sociology Specialist Program.

SPECIALIST PROGRAM IN SOCIOLOGY

Supervisor: S. Unger

416-287-7259

The Program requires completion of ten full-course equivalents as described below. No more than 3 FCE in Sociology may be included in a four-year degree.
1. **SOC401Y Introduction to Sociology**
2. **SOC408Y Methods in Social Research**
3. **SOC448Y Classic Sociological Theory**
4. **SOC468H Social Statistics**
5. **Two full-course equivalents at B-level in Sociology**
6. **SOC507Y Contemporary Sociological Theory**
7. One and a half full-course equivalents at C-level
8. One full-course equivalent at D-level
9. One and a half full-course equivalents in Sociology

**Enrolment in the Specialist Program in Family**

Students must normally apply to enter the Program after completing 4 or 5 S.C.E. including SOC401Y. Decisions are made on Program admissions only twice a year, in May and in August, and are based on student requests submitted to the Registrar through RGG. Admission is determined on the basis of a student's overall GPA and grade in SOC401Y. For students applying after 8-10 credits, admission will be on the basis of overall GPA and grades in SOC courses taken. Specialist students will be entitled to priority access to SOC301Y, SOC302Y and SOC306H for fall/winter sessions, in the summer early registration period.

**MINOR PROGRAM IN SOCIOLOGY**

Supervisor: S. Ungar (416-287-7299)

The Program requires completion of seven full-course equivalents in Sociology, including:
1. **SOC601Y Introduction to Sociology**
2. **SOC608Y Methods in Social Research**
3. **SOC648Y Classic Sociological Theory**
4. **SOC668H Social Statistics**
5. Three and a half full-course equivalents in Sociology, at least one and a half of which must be at the C-level

Enrolment in the Major Program is limited. Students must normally apply to enter the Program after completing 4 or 5 S.C.E. including SOC400Y. Decisions are made on Program admissions only twice a year, in May and in August, and are based on student requests submitted to the Registrar through RGG. Admission is determined on the basis of a student's overall GPA and grade in SOC401Y. For students applying after 8-10 credits, admission will be on the basis of overall GPA and grades in SOC courses taken. Major students will be entitled to priority access to SOC301Y, SOC302Y and SOC306H for fall/winter sessions, in the summer early registration period.

**SOC605Y Classic Sociological Theory**

This course will locate the development of classical sociological theory within the general frame of the history of social thought. After a brief review of the antecedents of sociological thought in classical antiquity and in the 18th century, the emergence of sociology is examined within the context of political and social changes. Special consideration is given to the works of Comte, Marx, Tocqueville, Durkheim, Weber, Simmel and Prell. The significance of their theories for contemporary developments in sociology is emphasized. Two hours of lecture per week. Limited enrolment: 170

Exclusion: SOC203

Prerequisite: SOC201Y

R. O'Toole

**SOC607Y Urban Sociology**

A review of theories of urban growth and urban form; the international development of urbanization, industrialization and modernization, issues in urban living (housing, transportation, urban-renewal, poverty, unemployment, etc.); urban social networks (urban and cultural heterogeneity, neighbourly community and other voluntary associations). Two hours of lecture per week. Exclusion: SOC205

Prerequisite: SOC201Y

J. Huttinage

**SOC608H Social Statistics**

A consideration of elementary statistics including the summarizing of data, the logic of statistical decision-making and a number of common statistical tests. A basis for the statistical tool used by sociologists. An understanding of statistics is necessary for the student who wants to become an informed reader of social research. A working knowledge of elementary algebra is required. During the term the student will undertake brief reviews of mathematics as they arise. This course is aimed at students who have had some practical experience in doing research. Using data sets provided by the instructor, students will be taught how to interpret tables and to employ them to test hypotheses. Three hours of lecture per week. Limited enrolment: 170

Exclusion: SOC200

Prerequisite: SOC401Y

R. Bernard

**SOC610Y Social Class and Social Stratification**

Description and analysis of the nature of social stratification with emphasis on the basis of stratification; different theoretical viewpoints concerning stratification; the structure and function of stratification systems, social classes and associated behaviour; social mobility, and class conflict. Two hours of lecture per week. Exclusion: SOC210

Prerequisite: SOC401Y

M. Hammond

**SOC611Y Sociology of the Family**

This course explores the family as a social institution, which shapes and at the same time is shaped by, the society in which it appears. We will study cross-cultural and historical variations in family organization. We will look at the relations between family organization and structural factors such as class, gender, and masculinity. The objectives of the course are to provide students with a sociological understanding of the issues related to the family, and to help students develop critical skills in analyzing these issues, and to gain insights into the implications of these issues. Two hours of lecture per week. Exclusion: SOC214

Prerequisite: SOC401Y

P-C Xing

**SOC618Y Sociology of Deviant Behaviour**

An analysis of the social processes by which behaviour is defined and treated as criminal, immoral, disgusting, sick, or merely deviant; the establishment and administration of social control and other control; deviant subcultures; and specific categories of deviance, such as: crimes against persons, violations of morals, illness, social deviance and deviant subcultures. Two hours of lecture per week. Exclusion: SOC212

Prerequisites: SOC401Y, SOC402Y

J. Hermann, B.A.

**SOC620Y Ethnic and Race Relations**

A study of the structure and processes in a society made up of a variety of ethnic and racial groups. The focus will be on Canada. The course will study ethnic stratification, immigration, prejudice and discrimination, ethnic social mobility and ethnic conflict, assimilation and ethnic identity retention, and the problem of integration of society. Specific topics will include: conflict of generations, stereotyping, Canadian bilingualism and multiculturalism and others.

Two hours of lecture per week. Exclusion: SOC210

Prerequisite: SOC401Y

P. Landolt
SOCI020H3 Sociology of Education
This course examines primary, secondary and higher educational institutions in modern industrial societies. Among the topics explored are social factors in educational achievement, accessibility, school culture, the role and professional status of teachers, and knowledge and power in learning situations.
Exclusions: SOC104, SOC202S, SOC225
Prerequisites: SOC101Y
J. Tanner

SOCI023Y3 Sociology of Work and Industry
An introductory examination of the nature of work and people's occupational roles and behaviour in modern industrial settings. Students will be exposed to some of the major concepts, theories and empirical research in the sociology of work and industry. Topics will address: an overview of the process of capitalist industrialization; changes in the occupational structure of the labour force; orientations to work; sources of job satisfaction and dissatisfaction; women and work; the impact of new technology; unions, employment, and unemployment; and professionalization.
Two hours of lecture per week.
Limited enrolment: 60
Exclusions: SOC207, SOC213, SOC207, SOC316, SOC337, SOC350
Prerequisites: SOC101Y
J. Tanner

SOCI024H3 Collective Behaviour
The study of institutionalized group behaviour - crowds, panics, riots and the genesis of social institutions. Two hours of lecture per week.
Limited enrolment: 60
Exclusions: SOC321, SOC316, SOC350
Prerequisites: SOC101Y, SOC101Y, SOC101Y
R. Bernard

SOCI026Y3 Contemporary Sociological Theory
A consideration of basic questions as they arise in the work of contemporary theorists and the theoretical schools of sociology. Students will be expected to develop an informed, critical perspective on current debates within the discipline.
Two hours of lecture per week.
Limited enrolment: 60
Exclusion: SOC121
Prerequisites: SOC101Y, SOC101Y, SOC101Y
M. Hammond

SOCI028H3 Gender and Information Technology
This course examines the transformation and perpetuation of gender stratification in relation to the emergence and development of information technology. It explores roles that family, ideology, state policies, and other social institutions play in the process. It also compares and contrasts effects of information technology on gender relations in the content of development and globalization. Students will develop and apply analytical skills to understand gender and information technology in everyday life.
Limited enrolment: 60
Exclusions: SOC295
Prerequisites: SOC101Y, SOC301Y, SOC301Y
P-C. Helmsin

SOCI038H3 Sociology of Gender and Work
Explores the interaction of gender and work. An examination of the relevance of gender to the organization and experience of paid and unpaid work. We will critically assess some of the central theoretical debates and recent research in this area of sociological inquiry. Through an analysis of quantitave and qualitative research, we will specifically consider gender differences in occupational and income attainment, homeworks, the relation of work and family, gender and class solidarity, the construction of gender identity through occupational roles, and related topics.
Limited enrolment: 60
Exclusions: SOC136
Prerequisites: SOC101Y & SOC101Y
R. Bernard

SOCI019Y3 Sex, Self and Society
A sociological examination of gender as a category of analysis, research and social experience. The single most important influence on our behaviour is being male or female. Gender is built into our social structure and the manner in which we access and use resources is structured.
This course will focus on the social construction of gender, gender ideology, the impact of gender on the individual and the social structure and the maintenance of gender inequality in the labour force, in the family, in education and in social interaction.
Two hours of lecture per week.
Limited enrolment: 60
Exclusions: SOC101Y
Prerequisites: SOC101Y, SOC101Y, SOC101Y
A. Seve

SOC221Y3 Sociology of Religion
A sociological analysis of religion as a social institution. Consideration of the problem of the definition of religion, analysis of major theoretical and empirical contributions to the field; and investigation of forms of religion in historical and contemporary contexts.
Limited enrolment: 60
Exclusions: SOC311, SOC250, REL210
Prerequisites: SOC101Y, SOC301Y, SOC301Y
R. O'Toole

SOC229H3 Comparative Ethnic and Race Relations
A comparative study of relations between diverse ethnic and racial groups in selected societies.
The purpose of the course is to develop a critical understanding of the process of inter-group relations. The course will compare the patterns of inter-ethnic relations in North America with those in selected European countries, Africa, Asia and Latin America.
Limited enrolment: 60
Exclusions: SOC295
Prerequisites: SOC101Y, SOC301Y, SOC301Y, SOC301Y
R. Bernard

SOC229H3 Sociology of Urban Growth
An in-depth examination of the conditions, patterns and consequences of urban growth and development. Major topics will include the emergence of new urban transformations (legal, political, economic) and the formation and operation of urban social networks.
Two hours of lecture per week.
Limited enrolment: 60
Exclusions: SOC121
Prerequisites: SOC101Y, SOC101Y, SOC101Y, SOC101Y
J. Hannan

SOC229H3 Varietal Family Forms
A review and sociological analysis of non-traditional family forms and innovative life styles representing departures from conventional marriage and family patterns. Included will be "singleness", "living together", "antipathy as a life style", non-monogamous forms, voluntary childlessness, co-habitation and co-operative, and "swinging". Special reference will be made to structural and functional dimensions, role changes, special problems and community response.
Limited enrolment: 60
Exclusions: SOC101Y
Two hours of lecture per week.
Prerequisites: SOC101Y, SOC101Y, SOC101Y, SOC112Y
A. Seve

SOC230H3 Criminal Behaviour
An advanced study of the causes and consequences of crime, with special emphasis on Canada. Two hours of lecture per week.
Limited enrolment: 60
Exclusions: SOC101Y, SOC202S, SOC225
Prerequisites: SOC101Y, SOC301Y, SOC301Y
J. Tanner

SOC234H3 Globalization: Causes, Consequences and Critique
Examines the post-1970's transformation of the international capitalist system and its consequences for social, economic, political, social and cultural dimensions of world society. Substantive topics include the changing nature of global capitalism, the construction of a new regulatory regime for the capitalist markets, consequences for nation-states and citizenship, adaptive and contentious responses to globalization.
Two hours of lecture per week.
Limited enrolment: 60
Prerequisites: SOC101Y, SOC101Y, SOC202S or DSB101
P. Landolt

SOC237H3 Environment and Society
This course links studies in the classical sociology of resources and territory (as in the works of Harold Innis, S.D. Clark, and the Chicago school), with modern topics in ecology and environmentalism. The course will include empirical research, and theoretical issues, in the relationship of human and natural environments.
Limited enrolment: 60
Exclusion: SOC385
Prerequisites: SOC101Y, SOC101Y, SOC101Y
J. Hamilton

SOC249H3 Supervised Independent Research
Student research by field methods, survey analysis or library archival research. Regular supervision of data collection and analysis, culminating in a research report.
Students are advised that they must obtain consent of the supervisor before registering for this course.
Exclusions: SOC986, SOC991, SOC992
Prerequisites: Completion of at least fifteen full-course equivalents including SOC101Y, SOC101Y, SOC202S, SOC301Y and permission of the instructor.
S. Unger
SOC20Y3 Sociology of Interpersonal Relations
Exclusion: SOC20R
Prerequisites: SOC-A01Y, SOC-A01Y

SOC84Y3 Sociology of Mass Media and Communication
Exclusion: SOC15, SOC24
Prerequisites: SOC-A01Y, SOC-A01Y

SOC003H3 Social Change
Exclusion: SOC20R
Prerequisites: SOC-A01Y, SOC-A01Y, SOC-A01Y

SOC04H3 Social Movements
Prerequisites: SOC-A01Y, SOC-A01Y, SOC-A01Y

SOC11H3 Sociology of Law and Law Enforcement
Exclusions: SOC213, SOC206
Prerequisites: SOC-A01Y, SOC-A01Y, SOC-A01Y, SOC-A01Y

SOC16H5 Sociology of Conflict and Cooperation
Prerequisites: SOC-A01Y, SOC-A01Y, SOC-A01Y

SOC21H3 Sociology of Culture
Exclusion: SOC20R
Prerequisites: SOC-A01Y, SOC-A01Y, SOC-A01Y

SOC22H3 Qualitative Methods in Social Research
Exclusions: SOC387, SOC105
Prerequisites: SOC-A01Y, SOC-A01Y, SOC-A01Y

SOC23H3 Changing Family Life in Canada
Prerequisites: SOC-A01Y, SOC-A01Y, SOC-A01Y

SOC23HN Comparative Social Structure
Exclusion: SOC183
Prerequisites: SOC-A01Y, SOC-A01Y, SOC-A01Y

SOC23H3 Social Change
Exclusions: SOC20R, SOC37
Prerequisites: SOC-A01Y, SOC-A01Y, SOC-A01Y

SOC24H3 Advanced Seminar in Sociological Theory
Exclusion: SOC-A01Y
Prerequisites: SOC-A01Y, SOC-A01Y, SOC-A01Y, SOC-A01Y

Statistics
(B.Sc.)

Faculty List
M. Evans, B.Sc. (Western Ontario), M.Sc., Ph.D., Professor
S.A. Harris, B.Sc. (Columbia), Ph.D. (Missouri) Lecturer

Discipline Representative: M. Evans
(416-287-7274)

Probability and statistics have developed over a period of several centuries as attempts to quantify uncertainty. With its origins in modeling games of chance, probability theory has become a sophisticated mathematical discipline with applications in such fields as demography, genetics and physics.

Statistics is concerned with the proper collection and analysis of data, both to reduce uncertainty and to provide for its assessment via probability. Applications range from pre-election polling to the design and analysis of experiments to determine the relative efficiencies of different vaccines.

STAB22H1 and STAB22H4 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 implementation.

STAB47H1 Introduction to Probability Theory and Mathematical Statistics
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.

Two hours of lecture and two hours of tutorial per week.
Exclusion: STAB22H1 or one of its equivalents & MAT241H1

STAC57H1 Time Series Analysis
An overview of methods and problems in the analysis of time series data. Topics covered include descriptive methods, filtering and smoothing time series, identification and estimation of time series models, forecasting seasonal adjustment, spectral estimation, Instruction in the use of SAS.

Three hours of lecture per week.
Exclusion: STAB47H1
Prerequisite: STAC52H1

STAC62H3 Stochastic Processes
This course continues the development of probability theory begun in STAB47H1.
Topics covered include Poisson processes, Gaussian processes, Markov processes, renewal theory, martingales and stochastic differential equations.
Three hours of lecture per week.
Exclusion: STAB47H1
Prerequisite: STAB47H1

COURSES NOT OFFERED 2002/2003

STAC42H3 Multivariate Analysis
Exclusion: STAC41H3
Prerequisite: STAC45H1

STAC52H3 Experimental Design
Exclusion: STAC52H3
Prerequisite: STAB47H1 & STAC52H1

STAC57H3 Regression Analysis
Exclusion: STA592
Prerequisite: STAB47H1
Visual and Performing Arts

Program Requirements

Art History, Visual and Performing Arts, and studio classes are offered at the undergraduate level. Students in these programs are encouraged to participate actively in all aspects of the programs, both in and outside the classroom. In addition to providing opportunities for students to study in studio or classroom settings, the programs also encourage students to participate in activities such as concerts, exhibitions, and other events.

Specialist Programs

Art History

Major Programs

Art History

Minor Programs

Art History

Music History

Studio

For Co-op opportunities related to the Specialist Program in Art History and the Major Program above, please see the Co-operative Program in Humanities. The Co-operative Program in Humanities offers a wide range of opportunities for students to gain practical experience in the arts and humanities.

Visual and Performing Arts

PROGRAM SPECIALIST IN ART AND CULTURE (B.A.)

Supervisor: M. Cerny (416-387-7177)

This program provides training in the visual and performing arts and in a university setting, both for students who wish to use and develop their skills in the arts and humanities. The program is divided into two parts: a) Individual plan of study, which may be a combination of the chosen Minor Programs, and b) Individual plan of study, which is based on the student's chosen Minor Programs. The program is designed to provide in-depth study in the Visual and Performing Arts.

Specialist in Art and Culture (Multi-Disciplinary)

The Specialist in Art and Culture (Multi-Disciplinary) requires the following courses:

1. Two Minor Programs from the Visual and Performing Arts

PLUS

One full-course equivalent in Visual Arts at the A- or B-level from an area outside those of the chosen Minor Programs.

2. Individual plan of study: a student may design a set of seven full-course equivalents, not including two full-course equivalents at the C- or D-level, in order to provide an individual approach to the Visual and Performing Arts subject. The student must confer with the Supervisor and get prior approval of the individual plan of study.

PLUS

Two full-course equivalents at the A- or B-level in Visual Arts at an area outside those of the individual plan of study.

PLUS

Two full-course equivalents at the A- or B-level in Visual Arts at an area outside those of the individual plan of study.

PLUS

One full-course equivalent in Visual Arts at the A- or B-level from an area outside those of the chosen Minor Programs.

Visual and Performing Arts

Specialist in Art and Culture (B.A.)

This program offers a range of courses and programs that are designed to provide in-depth study in the Visual and Performing Arts. The program is divided into two parts: a) Individual plan of study, which may be a combination of the chosen Minor Programs, and b) Individual plan of study, which is based on the student's chosen Minor Programs. The program is designed to provide in-depth study in the Visual and Performing Arts.

Specialist in Art and Culture (B.A.)

This program offers a range of courses and programs that are designed to provide in-depth study in the Visual and Performing Arts. The program is divided into two parts: a) Individual plan of study, which may be a combination of the chosen Minor Programs, and b) Individual plan of study, which is based on the student's chosen Minor Programs. The program is designed to provide in-depth study in the Visual and Performing Arts.

Specialist in Art and Culture (B.A.)

This program offers a range of courses and programs that are designed to provide in-depth study in the Visual and Performing Arts. The program is divided into two parts: a) Individual plan of study, which may be a combination of the chosen Minor Programs, and b) Individual plan of study, which is based on the student's chosen Minor Programs. The program is designed to provide in-depth study in the Visual and Performing Arts.
Specialist in Art and Culture (Music)
The Specialist in Art and Culture (Music) requires the following courses:

1. The Major Program in Music
   - Two full-course equivalents at the A- and B-level in VPA from areas outside of the Music Major

2. Core courses required for all streams:
   - PHIL 395H The Art of Thinking
   - VPA200H Computers and the Arts
   - VPA201H Cultural Theory
   - VPHC40HI The Body: Theories and Representations, Part One
   - VPHC40H The Body: Theories and Representations, Part Two

   VPCUSH Intermediate Seminar
   VPDUSH Senior Project

3. At least 1 P.C.E. from:
   - ENGBUSY What is Culture?
   - PHIL200H Philosophy of Art
   - PHIL201H Philosophy of Culture
   - VPA200H Cultural Pluralism I
   - VPHC40H The Body: Theories and Representations, Part One
   - VPHC40H The Body: Theories and Representations, Part Two

   VPCUSH Intermediate Seminar
   VPDUSH Senior Project

4. At least 1 P.C.E. from:
   - ENGBUSY What is Culture?
   - PHIL200H Philosophy of Art
   - PHIL201H Philosophy of Culture
   - VPA200H Cultural Pluralism I

   VPHC40H The Body: Theories and Representations, Part Two

Art History

Because art is perceived through the eyes and other senses as well as through the intellect, art history courses use slides, films, videos, and direct viewing of artwork collections and museums in the cities. Although some of the courses reflect a traditional structuring of art history by time periods, instructors often use new methodologies to explain the work within these periods. In addition to the critical thinking and writing provided by all humanities disciplines, these courses offer basic information about painting, sculpture, architecture, and other arts, and a chance to improve perceptual awareness.

MAJOR PROGRAM IN ART HISTORY

Supervisor: L. Cameron (416-287-7717)

Students must complete seven full-course equivalents as follows:

1. VPA105H plus one half-course at the A-level in Art History.
2. Four full-course equivalents from the series VPHB40-VPHBS9. Students may substitute one full-course equivalent from VPA or another discipline (such as VPA200H or PHIL203H) with the Supervisor's approval.

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

MINOR PROGRAM IN ART HISTORY

Supervisor: L. Cameron (416-287-7717)

Students must complete four full-course equivalents from the courses below as follows:

1. VPA105H plus one half-course at the A-level in Art History.
2. Two full-course equivalents from the series VPHB40-VPHBS9.
3. One full-course equivalent in art history at the C-D-level, chosen in consultation with the Supervisor.

Courses which may fulfill the requirements of the Minor include:

- VPA105H Collaboration in the Performing Arts
- VPHB203H First Nations Cultures in North America
- VPHB40HI The Body of Visual Art
- VPHB40HI The Human Figure in Greek Art (3.0)
- VPHB40HI The Human Figure in Greek Art (6.0)
- VPHB40HI The Human Figure in Greek Art (8.0)
- VPHB410H The Human Figure in Greek Art (12.0)
- VPHB410H The Human Figure in Greek Art (18.0)
- VPHB420H The Classical and Romanesque Art and Architecture
- VPHB430H The Arts in the Netherlands
- VPHB44H The Arts in Northern Europe ca. 1400-1500

Arts Management

SPECIALIST (CO-OPTERATIVE)

PROGRAM IN ARTS MANAGEMENT


The Co-operative Program in Arts Management is designed for students with an interest in both the arts and business or management, and normally requires four to five years to complete. It combines academic study in a wide variety of subjects with practical work experience, preparing students for permanent employment as arts managers, or for further studies in Arts Administration, Business Administration, Museum Studies, Drama, Music, Art History or Studio. For further information, please see http://www.arts.utoronto.ca/artsmgmt/ or consult the Calendar. The Co-operative Program: General Information, page 65. Enrollment in the program is limited. Interviews are normally held from March until May for applicants who pass the initial screening. Admissions are granted on the basis of applicants' academic performance, background in one or more of the arts, and interest and potential ability in Arts Management. Facility in another language and GAC accounting are highly desirable. The timing of work placements for students who receive transfer credit will depend upon the particular university courses completed. This program requires fifteen academic full-course equivalents within a twenty-course degree and two work terms of twelve to sixteen weeks each.

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 a student's needs and abilities. To compete for work placement a student must be in good standing in the Program and must have completed at least ten full-course equivalents including:

- two full-course equivalents from the artistic field
- VPA105H Introduction to Arts Management
- VPHB40HI Workshop in Arts Management I
- VPHB40HI Workshop in Arts Management II
- MOTA01Y Introduction to Management

They must also have completed the Introduction to Arts Management Co-op Tutorial.

Course Requirements

Students complete six full-course equivalents in (A), the management core program, three full-course equivalents in (B), the management field, six full-course equivalents from (C), the artistic field, and a further five full-course equivalents from (D), the elective field, in conjunction with the program supervisor.

CONSULTATION WITH THE SUPERVISOR OF STUDIES IS RECOMMENDED FOR ALL STUDENTS IN EACH YEAR OF THEIR PROGRAM, IN ADDITION TO ALL PROGRAM AND COURSE CHANGES MUST BE APPROVED BY THE SUPERVISOR OF STUDIES.

A. Arts Management Core Program

The following full-course equivalents are required:

- VPA105H Introduction to Arts Management
- VPHB40HI Workshop in Arts Management I
- VPHB40HI Workshop in Arts Management II
- MOTA01Y Introduction to Management
Courses in the first two years of the program

The first year of study should consist of VPAAB1H, VPA12H or VPA14H, one full-course equivalent from the artistic field, MGA10Y, and further courses in the artistic management field or electives.

The second year of study should consist of five full-course equivalents to include VPA201H, VPA204H, VPA206H, VPA212H or VPA214H, and a balanced mixture of management, artistic and elective courses.

Drama

The Drama Program has been devised to serve students who intend to major or minor in Drama, students who intend to specialize in Visual and Performing Arts, and students who have a censor interest in drama and theatre.

We offer two types of courses that complement each other: theoretical and practical. The theoretical courses are in the history of theatre and in special aspects of theatre history and theory. In the practical courses, students become acquainted with all aspects of theatre and production in studio situations, both as actors and as technicians. Beginning in 2003/2004, admission into the practical side of the program is by interview. Participation in public productions at UTSC is strongly encouraged.

MAJOR PROGRAM IN DRAMA

Supervisor: P. Sperakos (416-287-7188)

Students must complete seven full-course equivalents as follows:

1. VPA045H Collaborations in the Performing Arts
2. VPD010H Introduction to Performance I
3. VPD015H Performance II
4. VPD020H Intermediate Workshop in Performance I
5. VPD025H Intermediate Workshop in Performance II
6. VPD011H Studies in Theatre History I: From Greece to 1642
7. VPD012H Studies in Modern and Contemporary Theatre
8. ENG112Y Service Project
9. ENG112Y The Body: Theories and Representations Part Two

MINOR PROGRAM IN DRAMA

Supervisor: P. Sperakos (416-287-7188)

Students must complete four full-course equivalents as follows:

1. VPA04H Collaborations in the Visual and Performing Arts
2. VPD010H Introduction to Performance I
3. VPD015H Performance II

And at least two of the following courses:

- VPD025H Technical Production II
- VPD030H Modern and Contemporary Comedy
- VPD031H Victorian Theatre and Music Halls
- VPD051H Early Nineteenth Century British Theatre: From Sheridan to Boscaich
- VPD052H Experiencing the Live Theatre
- VPD053H Writing About the Live Theatre
- VPD054H Advanced Workshop: Performance and Directing
- VPD055H Supervised Studies in Drama
- VPD056H Independent Projects in Drama and Theatre
- VPD057H Independent Projects in Drama and Theatre
- VPD058H Independent Projects in Drama and Theatre
- VPD059H Independent Projects in Drama and Theatre

Courses which may fulfill the requirements of the Program:

1. Full-course equivalents in Drama, one full-course equivalent of which must be at the C- or D-level.

C. Artistic Field of Study

Six full-course equivalents (in addition to courses listed in the Arts Management Core Program) from one of the following disciplines: Art History, Drama, Music, and Studio. These courses should follow the requirements established for the Major program in your chosen artistic field. Students have the option of completing the Major program in their chosen artistic field (seven full-course equivalents) by taking one additional full-course equivalent, drawn from the Elective Field of Study (see below). The completion of the Major program (and further concentration of elective courses) in the chosen artistic field is particularly valuable for students contemplating graduate study. Students electing to complete the Major should do so in consultation with the Supervisor of Studies in the Arts Management and the chosen artistic field.

D. Elective Field of Study

A further five full-course equivalents, chosen in consultation with the program supervisor. The purpose of the elective field is to allow students to achieve a broadening of education, to interest and future needs. Students electing to complete the Major program in their chosen artistic field will take four full-course equivalents in the elective field of study.
Music
The Music curriculum is 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 at high school or elsewhere will find a selection of historical, theoretical, and practical courses in music, while students with no previous background can begin musical studies here. All students should consider taking advantage of the various opportunities that exist here for practical music making, particularly the services of Performance courses.

MAJOR PROGRAM IN MUSIC AND CULTURE
Supervisor: C. Clark (416-287-7194)
Students are required to complete a total of seven full-course equivalents in Music made up as follows:
1. VPA0A05H Collaborations in the Visual and Performing Arts
VPA0A06H Introduction to Music
VPA0A07H Materials of Music I
VPA0A08H Concert Band I
VPA0A09H Repertoire Choir I
VPA0A10H Concert Choir I
VPA0A09H Music of the World’s Peoples
VPA0B06H Topics in Music and Society to 1600
VPA0B07H Topics in Music and Society 1600-1900
VPA0B08H Topics in Music and Society 1600-1900 II
VPA0B09H Materials of Music II
VPA0B10H Concert Band II
VPA0B11H Music for the Theatre Jazz
VPA1B08H Film Music
VPA1B09H Concert Choir II
VPA1B10H Popular Music in a Cross-Cultural Context
VPM0C08H Opera
VPM0C18H The Orchestras and its Music
VPM0C20H Topics in Canadian Music
VPM0C23H Music and Gender
VPM0C25H Beethoven
VPM0C26H Stravinsky
VPM0C37H Handel
VPM0C40H Materials of Music III
VPM0C47H Concert Band III
VPM0C58H Concert Choir III
VPM0D00H Independent Studies in Music
VPM0D01H Independent Studies in Music
VPM0D02Y Independent Studies in Music
Performance Courses
The following performance courses are also available to students (count as a non-credit basis) and are open to all faculty and staff members. Exception for all participants is by audition. Credit (made available) can be registered but will not be admitted to the course unless granted permission by the Instructor during the first week of classes.

VPA0A20H Conduct Band I
VPA0A70H Repertoire Choir I
VPA0A71H Concert Choir I
VPA0B07H Repertoire Choir II
VPA0B11H Concert Choir II
VPA0C23H Concert Band II
VPA0C38Y Concert Choir III

Studio
The Studio curriculum is built around the idea that art is a means of expressing and understanding the human condition. It does not include courses in commercial or advertising art. The studio experience is intended to expand the student’s perception not only of what art is, but of why and how it is made, and to develop the ability to understand and experience the challenges of contemporary art. Critical skills will expand along with practical skills.

MAJOR PROGRAM IN STUDIO
Supervisor: D. Holmes (416-287-7177)
This program will give the student a full and broad exposure to both the various processes of art making and to recent developments in art criticism. It provides some preparation for teaching at the high school or elementary level.

We strongly urge students to take additional art history courses dealing with modern and contemporary art.

Students must complete seven full-course equivalents from Studio (see list) including:
1. VPA0A05H Collaborations in the Visual and Performing Arts
VPA0A06H Foundation Studies in Studio
VPA0B06H Painting I
VPA0B07H Painting II
VPA0B16H Sculpture Concepts
VPA0B17H Site-Specific Work
VPA0B18H Drawing I
VPA0B19H Computers and the Arts II
VPA0B20H Drawing II
VPA0B21H Electronic Media, Video
VPA0B22H Performance Art
VPA0B23H Introduction to Lithography
VPA0B24H Intermediate Lithography
VPA0C01H Supervised Studies in Studio
VPA0C02H Supervised Studies in Studio
VPA0C04H Supervised Studies in Studio
VPA0C05H Supervised Studies in Studio
VPA0C06H Theory and Practice I
VPA0C07H Theory and Practice II
VPA0D01H Independent Studies in Studio
VPA0D02H Independent Studies in Studio
VPA0D03H Independent Studies in Studio
VPA0D04H Independent Studies in Studio
VPA0D05H Independent Studies in Studio
VPA0D06H Independent Studies in Studio

VPA Courses Offered in 2002/2003
VPA General and Arts Management
VPA Drama
VPA Scholarship
VPA History
VPA Music
VPA Studio
GENERAL ARTS CAMPUS
VPA0A05H Collaborations in the Visual and Performing Arts

An introduction to interdisciplinary collaboration in art and culture.

The history of artistic expression is one of experimentation, innovation, and...
VPAP1013H1 Introduction to Arts Management
This course is intended to introduce students to the theories and practices of arts management. It is a general survey course that will introduce the wide breadth of arts in society. It will summarize the various disciplines involved, and the history of the arts in Canada, particularly as it relates to public policy and public institutions. The course will explore the ways in which the majority of arts institutions are structured, the nature of cultural interpretation and communication, the role of private and public cultural institutions, and the role of the arts in public cultural expression and political power relations in society.
Prequisites: VPAP1013H1, ENG100Y1, or permission of the instructor.

VPAP1083H3 First Nations Cultures in North America
A survey of the arts and cultures of the First Nations. Four credits awarded.
Prequisites: At least 5.0 of the Specialist in Art and Culture including C.500Y or permission of the instructor.

VPAP1213H3 Workshop in Arts Management I
An introduction to practical arts management skills. This course is designed to supply students with skills needed to function in the environment they encounter on work placements. Students are required to work on a project related to an arts management profession. Topics to be covered will include arts marketing, touring, facility management, and public relations. Exclusion: VPAP1213H1.

VPAC0313H3 Cultural Pluralism and the Arts II
A discussion of the arts and cultural practices in the management of the arts in a pluralist society. This course explores past and present policies and practices of arts organizations and cultural support systems in Canada and the management policies and techniques that will enable them to maximize their response to cultural change and diversity.
Prequisites: VPAP080H1 or permission of the instructor.

VPAC1063H3 Cultural Policy: National and International Perspectives
A study of the structure and patterns of cultural policy and arts funding, both nationally and internationally. This course will focus primarily on the history and development of cultural policy in the Canadian context, and will explore current policy issues in Canadian arts and culture. The course will also examine policy structures and issues in several other countries, including the United States, Great Britain, and Australia. The emphasis will be on an international and comparative analysis of cultural policy and arts funding, evaluating the strengths and weaknesses of particular policy and funding structures.
Exclusion: VPAP1063H1.

VPAD050H3 Senior Project
This course allows for individual or collaborative projects as an advanced level. Students are required to complete a project or series of works that reflect the research conducted in VPAC0313. Students must meet at least 2 times per week and contribute to the development of one another’s projects. Regular class meetings with compulsory attendance are essential.
Prequisites: VPAC0313H1.

VPAC1213H Senior Seminar in Arts Management
A synthesis of students’ prior academic studies and applied co-op work experience as they prepare to enter the world of arts management. This course is intended for Arts Management students who have completed at least one, preferably two, work terms. Each student will give at least one seminar dealing with their work term project, or their project and their work term report from a placement. The course will also include a seminar program which includes student evaluations of the seminars that were presented during the seminar.
VPDA013H1 Art, Culture, and Policy
An exploration of current theoretical issues in cultural policy and arts management.
Drawing on a range of recent work in cultural studies, cultural policy studies, sociology, art history, and museum studies, this course will enable students to synthesize and develop their prior knowledge of cultural theory and cultural policy. Adapting a case study approach, the course will examine issues and controversies in both the performing and visual arts, addressing questions of cultural value, canon formation, cultural appropriation, and institutional policy.
In addition to Arts Management students, the course will be of value to other VPA students with an interest in issues of cultural theory and policy.
Exclusion: VPAD141H
Prerequisite: VPAC15H

U1HABA
VPDA014H Introduction to Performance I
The practical study of basic stage acting techniques in a workshop atmosphere.
Themes include improvisation and role playing, exploring awareness, spontaneity, observation, concentration and imagination will be used to create a foundation for the development of the actor’s craft. Students will further develop their basic acting skills through movement work. A voice and movement component will introduce students to the fundamentals of voice and body awareness.
Exclusion: DRAM200H, (VPAA31Y)
Note: Permission to enroll will be given based on an interview with the UTSC VPA-Drama Program teaching staff.
T.B.A. P. Spiridakos

VPDA015H Introduction to Performance II
A continuation of VPDA014H with an emphasis on the fundamentals of characterization and interpretation of text.
While continuing with exercises and improvisations, students will also begin to work on scenes, learning to analyze text and sub-text and to develop a character. Motivation, defining objectives and establishing physicality and movement.
Exclusion: (VPAA31Y)
Prerequisite: VPDA014H

VPDB010H Intermediate Workshop in Performance I
This course is intended for students who wish to continue the study of acting for the stage in greater depth.
Exercises, discussions, and an increasingly more challenging range of monologues and scenes will be used as vehicles for exploring characterization and the acting process. The concept of performance style will be introduced. Audition techniques will be discussed, and basic rehearsal methods will be considered. This course will also focus on the dynamics of ensemble work, and on building a shared understanding of the ethics and discipline of the theatre. The course work will culminate in class performance.
Exclusion: (VPAB15Y)
Prerequisites: (VPAA31Y), VPDA014H and permission of the UTSC VPA-Drama Program Teaching Staff
M.Q. Schenberg

VPDB011H Intermediate Workshop in Performance II
A continuation of VPDB010H, which will focus on advanced performance techniques.
Themes include movement, research, and the preparation of scenes. Students will develop techniques for acting in the stylized plays of various periods and genres, which may include Greek tragedy, medieval theatre, Elizabethan, Commedia dell’Arte, Baroque, and Naturalist. The focus of the course will be the demands these acting styles make upon the actor’s intellect, voice, voice, and movement.
Exclusion: (VPAP31Y)
Prerequisites: (VPAA31Y), VPDA014H and permission of the instructor
M.Q. Schenberg

VPDB012H Technical Production I
An introduction to the technical elements of theatre production.
Students will receive a basic grounding in the fundamentals of stage management, stage lighting, sound operation, set building, scenic painting and general technical practice. As part of the course, students will assume responsibility for some of the technical production in UTSC productions.
Exclusion: (VPAB15Y), DRAM25Y

VPDB013H Technical Production II
An exploration of advanced technical production techniques. An introduction to the technical elements of theatre production.
Students will assume responsibility for some of the technical production in UTSC productions.
Exclusion: (VPAB15Y), DRAM25Y

VPDC014H Advanced Workshop: Performance and Directing
A continuation of the exploration of advanced performance techniques begun in VPDB010H, as well as an investigation of the fundamentals of directing.
This course will analyze, work on, and produce complete scenes, short plays, and solo pieces, as actors and/or as directors, and may work on other projects according to their individual area of interest. They may also do research connected with the particular project which has been chosen for production at UTSC in the spring term.
Exclusion: DRAM400H, (VPAC15H)
Prerequisites: (VPAB11Y), (VPAC20Y), VPDB010H and permission of the UTSC VPA-Drama Program Teaching Staff
P. Spiridakos

VPDC016H Technical Production I
A continuation of Technical Production I.
Students will explore in greater depth the practical application of the technical elements of theatrical production. As part of the course, students will assume responsibility for some of the technical positions available in UTSC productions.
Exclusion: (VPAB11Y)
Prerequisite: VPDB010H

VPDC017H Writing About/For the Live Theatre
A course intended for students who wish to learn about writing analytically or critically for the theatre, and/or who are interested in writing short pieces for the stage.
A part of the course will involve attendance at a number of professional Toronto productions that will then be analyzed and reviewed. The course will be taught in seminars.
Prerequisites: VPDB010H, (VPAC15H)

VPDC018H Supervised Performance
A course will do research connected with the particular play which has been chosen for production at UTSC. At the same time, they will prepare the play for public performance, serving as actors and/or as members of the production team. Write work documenting and analyzing their participation in the project, and representing a significant percentage of the final grade.
Exclusion: (VPAC15H)
Prerequisites: VPDC016H (VPAC15H)

VPDC019H Advanced Workshop: Performance Directing
A continuation of the exploration of advanced performance techniques begun in VPDB010H, as well as an investigation of the fundamentals of directing.
Students will analyze, work on, and produce complete scenes, short plays, and solo pieces, as actors and/or as directors, and may work on other projects according to their individual area of interest. They may also do research connected with the particular project which has been chosen for production at UTSC in the spring term.
Exclusion: DRAM400H, (VPAC15H)
Prerequisites: (VPAB11Y), (VPAC20Y), VPDB010H and permission of the UTSC VPA-Drama Program Teaching Staff
P. Spiridakos

VPDC020H-223H Supervised Studies in Drama
Advanced scholarly projects open to upper-year Drama students.
The emphasis in these courses will be on advanced individual projects exploring specific areas of theatre history and dramatic literature. Students wishing to take
any of these courses should approach the Supervisor of Studies with a specific proposal or area of interest. In consulting with the Supervisor of Studies, students should indicate the faculty member they would like to have act as their supervisor. Students should be aware, however, that the faculty member of their choice might not be available to supervise them.

Prerequisite: One C-level full-course equivalent in Drama, and/or permission of the Supervisor of Studies. Exclusions: (VPA326H1S-D23H) Members of Faculty

VPH043H3 VIGOR Independent Projects in Drama and Theatre

Advanced practical projects open to upper-level Drama students.

These courses provide an opportunity for individual exploration in areas involving the practice of theatre: directing, producing, design, playwriting, dramaturgy, etc. They are designed for students who have demonstrated the ability to work at an advanced level without intensive guidance. Students wishing to take any of these courses must locate a willing supervisor, and then submit a proposal to the Supervisor of Studies with a specific proposal or area of interest. They should be aware, however, that the faculty member of their choice might not be available to supervise them.

Exclusions: (VPA043H1S-D23H) Prerequisite: One C-level full-course equivalent in Drama, and/or permission of the Supervisor of Studies. Members of Faculty

VPH043H3 Visual and Performing Arts

212 Visual and Performing Arts

they developed in an entirely new form of artistic expression in the high Middle Ages; and how they led up to the Renaissance.

Exclusions: FAH128H1, (VPA144H1S).

Topics will normally be defined by geography (Eastern or Western). Please see the course syllabus, available after early July 2002 for more detail.

Exclusions: (VPA505H1S)

T.B.A.

VPH043H3 Gothic Architecture

The development of Gothic architecture from the beginning of the twelfth century to the middle of the thirteenth century.

Exclusions 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 programs of the said churches will be included.

Exclusions: FAH128H1, (VPA144H1S). Prerequisite: One full-course equivalent in art history at the B-level or permission of the instructor. T.B.A.

VPH043H3 Topics in Art of the Ancient World

A special topics course in ancient art and architecture. A concentrated study of a particular topic in ancient art, which will change from year to year.

Exclusions: (VPA146H1S).

Prerequisites: VPH043H3, (VPA42H1S) or permission of the instructor. T.B.A.

VPH043H3 The Body: Theories and Representations, Part One

An interdisciplinary course about the body in art, narrative and popular culture. Everybody has a body but what is a body? What is the relationship between the ways bodies are represented and the way we experience them as "real"? How does the female body get written or visualized as "feminine" and the male body as "masculine"? How does the body become a site where we construct experiences of normal and perverse, beautiful and monstrous, sexual and spiritual, legitimate and illegitimate, natural and unnatural, erotic and pornographic? We will look at films from D.W. Griffith's The Birth of A Nation to the Terminator, and literature from Dr. Jekyll and Mr. Hyde, Breakfast at Tiffany's and The Bell Jar, as well as visual art from ancient Greek sculpture to Impressionist art, Pop Art, contemporary photography and performance art, and articles of popular culture. Limited enrolment: 35.

Exclusions: VPA146H1S, ENC127H1, Pbd/Cmpts: Two F.C.E. from ENGL100Y, ENGL80Y, VPA144H1S, VPA145H1S, VPA147H1S, VPA150H1S, VPA148H1S, VPA149H1S, VPA151H1S, WRTA201Y or permission of the instructors. L. Carney (GEO, L. Carney)

VPH043H3 Medieval Art

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 and Medieval periods. Please see the course syllabus, available after early July 2002 for more detail.

T.B.A.
that stresses the close connections existing between music and society. Throughout the course, the emphasis is on what may be heard in a piece of music and theoretical concepts are kept to a minimum. Nevertheless, students will gain some basic understanding of the variety of ways that composers through the ages have got about the task of creating meaningful structures in sound. No previous musical experience is necessary.
Exclusion: MUS100H, (VPA949H)
T.R.A./L. Whiting

VPA945H2 Repertoire Choir I
A practical study of music from the choral repertoire and an introduction to music theory.
This course is for students who have little or no experience in choral singing. In addition to learning choral works, students will be instructed in fundamental aspects of musicianship, ensemble singing, and basic elements of music theory, including concepts of melody and harmony, pitch and rhythmic notation, and musical forms. The performance component of the course meets for rehearsal with VMP820H.
Exclusion: (VPA941H), (VPA948H), (VPA949H)
L. Whiting

VPA947H3 Concert Choir I
The practical study of a wide range of music from the choral repertoire.
Students work as members of Scarborough College Concert Choir, a chamber choir which performs compositions drawn from the literature of the Renaissance to the present day. The choir gives public performances in each semester.
In addition, 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 two hours per week for rehearsal with VMP898Y and VFP897Y.
Exclusion: (VPA941H), (VPA948Y), L. Whiting

VPA991H1 Music of the World's Peoples
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 selected examples 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.
Exclusion: MUS200H, (VPA996H)
A. Singer

VPM887H5 Topics in Music and Society from 1600-1900
Using a thematic rather than a chronological approach, this course will examine Western music within the given period from the point of view of style and structure; social, cultural, economic and historical context; aesthetic significance and reception; and current critiques of interpretation. The emphasis will be on introducing students to a wide variety of approaches to the study of music.
Exclusion: (VPA949H)
Prerequisite: VPM880H, (VPA948H) and VPM881H, (VPA949H)
C. Clark

VPM891H2 Topics in Music and Society from 1600-1800 II
Music in society, selected topics from the period 1600-1800.
Using a thematic rather than a chronological approach, this course will examine Western music within the given period from the point of view of style and structure; social, cultural, economic and historical context; aesthetic significance and reception; and current critiques of interpretation. The emphasis will be on introducing students to a wide variety of approaches to the study of music.
Exclusion: VPM885H
Prerequisite: VPM880H, (VPA948H) and VPM881H, (VPA949H)
J. Mayo

VPM893H2 Topics in Music and Society after 1800
Music in society: selected topics after 1800.
Using a thematic rather than a chronological approach, this course will examine Western music within the given period from the point of view of style and structure; social, cultural, economic, and historical context; aesthetic significance and reception; and current critiques of interpretation. The emphasis will be on introducing students to a wide variety of approaches to the study of music.
Exclusion: VPM885H
Prerequisite: VPM880H, (VPA948H) and VPM881H, (VPA949H)
J. Mayo
VPMS0695 Materials of Music II
A combination of VPMS0595. Exclusion: (VPAS0192X).
Prequisite: VPMA595H, (VPAA595H), or Royal Conservatory Gr 12 harmony or equivalent.
A. Rapport

VPMS0765 Concert Band II
A combination of VPMA326H. Exclusion: (VPAB0260X).
Prequisite: VPMA326H, (VPAA326H). L. Shields

VPMS0755 Jazz
A history of jazz from its African and European roots to present day experiments.
The history of jazz styles 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. Exclusion: (MUSB14), (VPAB940H)
A. Stadlbauer

VPMS0805 Repertoire Choir II
A combination of VPMA360H.
Exclusion: (VPAA360H), VPMA361H, (VPAA361H).
L. Whiting

VPMS0875 Popular Music
An examination of the genre and history of twentieth-century popular music with particular attention to its social and commercial contexts.
After considering definitions of popular music, the course surveys the history of the North American genres of blues, jazz, and rock from a comparative perspective, highlighting the interplay of technology, media, and the interests of the commercial music industry.
No previous musical experience is required. Exclusion: (VPAB096H).
T.R.A

VPMS0873 Concert Choir II
A combination of VPMA3087.
Exclusion: (VPAA3087), VPMA3097, (VPAA3097).
Prequisite: VPMA3087, (VPAA3087).
L. Whiting

VPMS0883 Popular Music in a Cross-Cultural Context
Popular music in a multi-cultural world.
The course will cover many perspectives on the development of popular music in a global context. Following some definitions and theoretical underpinnings, our study will focus on diverse music traditions from many regions of the world. Topics for consideration will include media, music (recordings, film, radio, etc.), urbanization, social and political issues, pop room, dance and cultural migration.
Prequisite: VPMA910H, (VPAA910H)
A. Sawyer

VPMS0853 Topics In Canadian Music
A thematic approach to the study of music in Canada.
In 2002/2003 this course will examine the question of Canadian musical identity in the 20th century. Through in-depth analysis of individual compositions and a broader based study of artistic organizations and institutions, the course will explore the nature of contemporary Canadian music and musical culture. The course will also link musical activities with movements occurring in the other arts and in society at large.
Exclusions: (VPAC329H)
Prequisite: VPMA394H, (VPAA394H)
and one course from the series VPMB56-89 (VPAB58-89).
J. Mayo

VPMS0852 Music and Gender
A study of women in music, and the role of gender studies in musical criticism.
This course will explore the socio-cultural contexts of music-making by women and study representative works by female composers. Topics and issues in feminist and queer theory will also be addressed. Lectures and discursive and political issues generated by in-class reports and presentations.
Exclusions: HIM2307, (VPAC2307)
Prequisite: VPMA300H, (VPAA300H) or WSTA101Y
C. Clark

VPMS0893 Materials of Music III
A combination of VPMB593H.
Exclusion: (VPAA593H).
Prequisite: VPMB590H, (VPAA590H).
E. Rapport

VPMS0963 Concert Band III
A combination of VPMA596H.
Prequisite: VPMA595H, (VPAA595H), A. Rapport

VPMS0903 Materials of Music IV
A combination of VPMB590H.
Students in this course meet for three hours per week, two hours of lab (VPMA592H and VPMB592H) and one hour in a seminar to continue the elements of instrumental directing and conducting are presented.
Exclusion: (VPAC292H).
Prequisite: (VPAB292H), VPMB592H, L. Shields

VPMS0893 Concert Choir III
A continuation of VPMB493H.
Students in this course meet for three hours per week. Topics of VPMA594H and VPMB594H and one hour in a seminar to continue the elements of choral directing and conducting are introduced.
Exclusions: (VPAC294H), VPAC293H
Prequisite: (VPAB294H), VPMB594H.
L. Whiting

VPMS0810 VPMB610H
Independent Studies in Music
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 current interest to both student and supervisor and which is not available for study otherwise. Students must regularly with the supervisor for consultation and preparation a 5,750 word paper for a term course or a 10,000-15,000 word paper for a year course. Students who have demonstrated exceptional ability in VPMA400H and VPMCG0H may in certain circumstances prepare 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.
Exclusions: (VPAB601H), (VPAB601H), (VPAC292Y)
Prequisite: At least two full-course equivalents in music at the B- and C-level; permission of the instructor to be obtained by the last date of classes in the previous term.
Core-ordinator: C. Clark

VPAS050H Foundation Studies in Studio
An introduction to the various processes of print-making; drawing, painting, sculpture, printmaking, installation work, performance, video and video.
This course is intended to prepare the student for further study in Studio. A basic foundation in visual understanding will be built through the personal exploration of a range of processes and techniques.
Students will discover, through assigned work and class discussion, the many ways contemporary art is made. They will be required to work on a number of processes through assignments.
Maximum of four hours per week and three to five hours of individual studio in the studio.
Limited enrolment: 20
Exclusion: VPAB230H, (VPAB230Y), VPAS301H
Prequisite: VPBS411H, (VPAB411H), (VPAC444H)
T.B.

VPBS051H Sculptural Concepts
An investigation of the changes in sculpture in the 20th century with an emphasis on contemporary art.
This course will familiarize the student with recent concepts in sculpture. Current explorations of space, time, motion and sound will be discussed.
The course will have a lecture/discussion format with each student leading a discussion. Students will also be responsible for a number of working drawings and/or objects dealing with assigned problems.
These exercises are to be carried out twice a week and three to five hours of individual study in the studio.
Limited enrolment: 15
Exclusion: (VPAB067Y), (VPAB630H)
Prequisite: VPBS310H or permission of the instructor.
J. Hogstrom
Two hours of lecture per week and three to five hours of individual study in the studio. Exclusions: VISP324, VPAB324, VPAB363H, VISP424H, VISP464H, VISP524H, VISP564H, VISP564H.

Exclusions: VPAB450H, VPAB451H, VPAB452H, VPAB453H.

(C) Course arrangements

Prerequisite: At least one-half course in the area of intended study at the Clevelee

COURSES NOT OFFERED 2002/2003

VPA314H Workshop in Arts Management II
Exclusion: (VPAB417Y)

VPA313H Theatre in Canada
Exclusion: DRM308, DRM309

VPA312H Introduction to Asian Theatrical Traditions
Exclusion: (VPAB312)

VPA311H Studies in Theatre History I
From the Greeks to 1642
Exclusions: VPAB311, DRM308, DRM309

VPA310H Victorian Theatres and Music Halls
Exclusion: (VPAC31Y)

VPA309H Modern and Contemporary Comedy
Exclusion: VPAB28Y

VPA308H Early Nineteenth Century British Theatre: From Sheridan to Boosey
Exclusion: (VPAC31Y)

VPA307H The History of Art in Greek Art (I-4 Century B.C.)
Exclusions: VPAB308, VPAB418

VPA306H Pre-Co-requsite: Any course in art history or VPA405H

VPA305H Carding and Romanese Art and Architecture
Exclusions: FAH221, FAH222, FAH316H, (VPAB429)

VPA304H The Arts in Northern Europe ca. 1400-1500
Exclusion: FAH307Y, (VPAB314)

VPA303H Baroque Painting in the Netherlands
Exclusion: FAH308, (VPAB440)

VPA302H A further opportunity for individual exploration in printmaking, painting, drawing, video, performance, sculpture, or mixed media.

These courses may be taken in any area including printmaking, drawing, painting, installation, video, performance, or mixed media. Students are expected to attend all classes and to discuss all work in progress. Students must obtain written consent from their advisor to be registered in these courses.

VPS569H Theory and Practice I
An exploration of ideas and practice with an emphasis on two-dimensional work, including digital imaging.

Through a process of seminars and production, students will concentrate on many of the problems, both practical and theoretical, in two-dimensional work and its exhibition.

Exclusion: (VPAC661Y)

Prerequisite: At least 0.5 credit in a B-level course dealing primarily with two dimensions.

J. Hoeghstraten

VPS568H Theory and Practice II
An exploration of ideas and practice with an emphasis on three-dimensional and time-based work.

Through a process of seminars and production, students will concentrate on many of the problems, both practical and theoretical, in three-dimensional and time-based work and its exhibition.

Exclusion: (VPAC661Y)

Prerequisite: At least 0.5 credit in a B-level course dealing primarily with three dimensions or time-based work.

J. Hoeghstraten

VPS563H Advanced Studies in Studio
An opportunity for the student to create a number of personal statements working in an area of their own choosing.

These courses may be taken in any area including printmaking, drawing, painting, installation, video, performance, or mixed media. Students must be able to provide documentation of their previous work and their written proposal. The proposal should state the proposed area of exploration and the amount of work necessary to fulfill it. Students are expected to attend all classes and to discuss all work in progress. Students must obtain written consent from their advisor to be registered in these courses.

VPS562H Independent Studies in Studio

These courses may be taken in any area including printmaking, drawing, painting, installation, video, performance, or mixed media. These are designed for the mature student who can show, through their portfolio and their written proposal, an ability to work at an advanced level without intensive guidance. The proposal should state the proposed area of exploration and the amount of work necessary to fulfill it.

Students are expected to attend all classes and to discuss all work in progress.

Students must obtain written consent from their advisor to be registered in these courses.

Two hours of lecture per week and three to five hours of individual study in the studio. Exclusions: VISP301, 302, VPAB301H, (VPAC302H), (VPAC303H), (VPAC304H), (VPAC305H).

Exclusions: VPAB401H, VPAB401H, VPAB402H, VPAB403H or VPAB407H or VPAB408H or VPAB409H or VPAB410H or VPAB411H.

Prerequisite: Based on the written proposal and portfolio.

J. Hoeghstraten

VPS570H Drawing II
An investigation of the various approaches to drawing, including working from the figure and working with ideas.

Using the model and assigned texts, 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. Drawings from the model, assigned drawings, 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. Three hours of lecture per week and from three to five hours of individual study in the studio.

Limited enrollment: 20
Exclusion: VISP205H, VPAB370H
Prerequisites: VPAB607H, VPS562H, (VPAB462H)

J. Hoeghstraten

VPS570H Drawing III
A continuation of VPAB607H with an increased emphasis on the use of the computer in the visual arts.

Individual and group projects will allow students to further explore and expand their personal understanding of the complexities of current software used in the visual arts. The course will include discussions concerning the philosophical and aesthetic problems presented by the medium, as well as demonstrations and lectures covering the technical aspects of the hardware and software that students will be using. Students are required to produce one portfolio of work done in the software covered in class. Two hours of lecture per week and three to five hours of individual study in the studio.

Limited enrollment: 15
Exclusion: VPAB370H
Prerequisites: VPAB303H and permission of the instructor.

J. Hoeghstraten

VPAB201H Drawing I

A continuation of VPAB607H with an increased emphasis on the use of the computer in the visual arts.

Individual and group projects will allow students to further explore and expand their personal understanding of the complexities of current software used in the visual arts. The course will include discussions concerning the philosophical and aesthetic problems presented by the medium, as well as demonstrations and lectures covering the technical aspects of the hardware and software that students will be using. Students are required to produce one portfolio of work done in the software covered in class. Two hours of lecture per week and three to five hours of individual study in the studio.

Limited enrollment: 15
Exclusion: VPAB370H
Prerequisites: VPAB303H and permission of the instructor.

J. Hoeghstraten

VPAB201H Drawing II

A continuation of VPAB607H with an increased emphasis on the use of the computer in the visual arts.

Individual and group projects will allow students to further explore and expand their personal understanding of the complexities of current software used in the visual arts. The course will include discussions concerning the philosophical and aesthetic problems presented by the medium, as well as demonstrations and lectures covering the technical aspects of the hardware and software that students will be using. Students are required to produce one portfolio of work done in the software covered in class. Two hours of lecture per week and three to five hours of individual study in the studio.

Limited enrollment: 15
Exclusion: VPAB370H
Prerequisites: VPAB303H and permission of the instructor.

J. Hoeghstraten
Women's Studies

(B.A.)

Faculty List
C. Bertrand-Jennings, Lds L. (Paris), Ph.D. (Wayne State), Professor Emeritus (French)
P. F. Thompson, M.A., Ph.D. (Toronto), Professor (Philosophy)
L. J. Allen, M.A. (McMaster), M.Phil., Ph.D. (Yale), Associate Professor (History)
J. Boyd, M.A. (Calgary), Ph.D. (UBC), Associate Professor (Anthropology)
L. Carney, M.A. (Calgary), Associate Professor (Fine Arts History)
C. Clark, M.A. (Ottawa), Ph.D. (Cornell), Associate Professor (Visual & Performing Arts)
M. C. Cuddy-Kane, M.A., Ph.D. (Toronto), Associate Professor (English)
P. C. Holm, B.A. (National Chinese University, M.A. (Chinese Cultural University), M.A. (California), Ph.D. (Calif.), Associate Professor (Sociology)
F. Jaconett, M.A., Ph.D. (York, Canada), Associate Professor (History)
M. E. Irwin, M.A., Ph.D. (Toronto), Associate Professor (Classics)
D. M. James, M.A. (Cornell), Ph.D. (Chicago), Associate Professor (Literature)
L. Lange, B.A., M.A. (Manitoba), Ph.D. (Toronto), Associate Professor (Philosophy)
M. Latta, M.A., Ph.D. (Toronto), Associate Professor (Anthropology)
A. Leveque, B.A., M.A. (Winid), Ph.D. (York, Canada), Associate Professor (Sociology)
P. Spectre, M.A., Ph.D. (Toronto), Associate Professor (Visual and Performing Arts)
R. B. Bernard, B.A. (York), M.A. (McGill), Ph.D. (UCLA), Associate Professor (Sociology)
M. Goldfinch, M.A. (Victoria), Ph.D. (Oxford), Assistant Professor (English)
C. Guberman, B.A. (Montreal), M.E.S. (York), Instructor
J. Hooghe, B.A. (Manitoba), Senior Lecturer (Fine Arts Studies)
T. Mars, Senior Lecturer (Visual & Performing Arts)
D. McCarthy, B.A. (Toronto), Senior Associate

Discipline Representative: D.M. James (416-277-7179)

Women's Studies examines women's roles, women's work, and women's contributions past and present to society. Because women have been the most dominant, 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 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, Visual and Performing 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, administrative positions, law, media or social work are encouraged to consider enrolling in the Major in Women's Studies; since these careers involve consideration of equity issues, a background in Women's Studies would be a definite asset.

Supervisor of Major and Minor Programs:
J. Carney (416-207-7171)

THE MAJOR PROGRAM IN WOMEN'S STUDIES

The Major Program is designed to acquaint students with the substantial body of scholarship and research in the field and methodologies used to examine women's issues in the major academic disciplines. Students must select seven full-course equivalents as follows:

1. WSTA01Y Introduction to Women's Studies
2. WSTA05H Current Research on Women's Issues
3. One and one-half full-course equivalents from the list below:
   WSTB11Y Race, Class and Gender
   WSTB12H Women: Issues of Violence and Safety
   WSTC21H Women and the Media
   WSTC30H Special Topics in Women's Studies and Gender Issues
   WSTC21H Special Topics in Women's Studies and Gender Issues
   WSTC23H Special Topics in Women's Studies and Gender Issues
   WSTC22Y Senior Project in Women's Studies

Women's Studies: Research and Methods

5. Three and one-half full-course equivalents from the list below (students should check course descriptions for prerequisites):
   ANTC01H Anthropology of the Body
   ANTC02Y The Anthropology of Women
   ENGB50Y Women in English
   ENGB10-59H Studies in Major Writers*
   ENGB30-59H Selected Topics in English*
   CRSC05H Contemporary Women Writers in France
   HIS10Y Women in French Revolution
   HIS145H Women in Canadian History
   HIS145H Selected Topics in Canadian Women's History
   LINC28Y Language and Gender
   PSYC313H Social Psychology
   PSYC76Y Women in Political and Social Theory
   PSYD18H Sociology of Gender
   PSYD19H Socialization Processes
   SOCC09H Sociology of the Family
   SOCC10H Women, Sex, and Society
   SOCC21H Changing Family Life in Canada
   SOCC22H Various Family Forms
WSTB13H3 Women and the Media
An interdisciplinary approach to feminist critiques of the media.
The representation of women will be examined in media such as film, television, videos, newspapers, magazines and radio. Students will also develop a perspective on women's participation in, and contributions to, the various media industries.
Exclusion: NEW350Y
Prerequisite: WSTA01Y or permission of the instructor.
T.B.A.

WSTC20H3 Women and Environment
How women's lives have been shaped by the environments in which they live, and how women have changed these environments.
Drawing on historical and contemporary examples a range of issues will be addressed including: the idea of nature as female; the impact of mechanization and industrial change on women; environmental ethics; eco-feminism; women and global sustainable development; struggles for ecologically and socially safer environments.
Prerequisite: Two full-course equivalents in WST, or permission of the instructor
C. Guberman

WSTD01H3 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.
A substantial essay, research project, or major presentation of the project will be given to two evaluators - the course Co-ordinator and the supervising faculty member. Arrangements with the course Co-ordinator and the supervising faculty member must be made by the student before the end of the spring pre-registration period.
Prerequisites: WSTA01Y & WSTB05H & one and one-half F.C.E.'s from the list in #3 of the Major Program in Women's Studies (or permission of the instructor).
Co-ordinator: C. Guberman

WSTD02H3 Women's Studies: Research and Methods
Students will design, develop and conduct a qualitative research project about women from an interdisciplinary perspective.
Field work is the basis of this course. It will also include an overview of the various phases of carrying out research; planning the research project, choosing appropriate methods for data collection, analyzing the data and reporting the results. There will be regular consultation with the faculty supervisor.
Prerequisites: WSTA01Y & WSTB05H and one and one-half F.C.E.'s from the list in #5 of the Major Program in Women's Studies (or permission of the instructor).
C. Guberman

COURSES NOT OFFERED 2002/2003
WSTC10Y3 Women and Development
Exclusions: NEW424Y
Prerequisite: WSTA01Y or permission of the instructor.
Recommended: IDS301Y or IDS302H

WSTC30H3 Selected Topics in Women's Studies and Gender Studies
Prerequisite: WSTA01Y or permission of the instructor.

WSTC31H3 Selected Topics in Women's Studies and Gender Studies
Prerequisite: WSTA01Y or permission of the instructor.

WSTC28H3 Selected Topics in Women's Studies
Prerequisite: WSTA01Y or permission of the instructor.
Admissions

Re-enrolling University of Toronto at Scarborough

Students who wish to return after an absence of three or more consecutive sessions (at least 12 months) must submit an "Application To Re-Enter" at Registrarial Services, Room S303. As enrollment in MOTG courses is on a first-come, first-served basis, students are strongly advised to apply to re-enroll by APRIL 1 FOR THE SUMMER SESSION AND JUNE 15 FOR THE FALL/WINTER SESSIONS in order to have the forms processed in time to take advantage of the wider availability of courses when the "course selection period" begins. Students who have a four year degree conferred normally continue as Non-Degree Students. Students who wish to start a second degree must apply in WRITING to the Assistant Registrar, Admissions (Room S303P) by April 1. For further information on re-enrollment, telephone 416-287-7001. See also the sections 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 |
| e-mail: ask.adm@utoronto.ca |
| website: www.library.utoronto.ca/admissions/ |

Admissions and Student Recruitment

University of Toronto at Scarborough, Room S303P

126 Military Trail

Toronto, Ontario, Canada M1C 1A4

Telephone: 416-287-7523

e-mail: admissions@uts.c.utoronto.ca |

website: www.uts.uc.utoronto.ca/admissions

Ontario Universities Application Centre

website: www.ouac.on.ca

Telephone: 519-823-1940

Applicants interested in graduate studies should contact the School of Graduate Studies.

website: www.sgs.utoronto.ca

Telephone: 416-978-6614

Application Procedures and Deadlines

Students currently enrolled in a full-time Ontario secondary school submit the 101 application through their school's guidance office. All other applicants must request an application from Admissions and Awards, giving full details of their educational background and standing. Full-time applications (105D and 109P) are available on-line at the Ontario Universities Application Centre.

Most of the applications for UTSC programs are submitted to the Ontario Universities Application Centre for initial processing. Upon receiving the application from the OUAC, the University of Toronto's Admissions and Awards office sends the applicant a confirmation letter and Applicant Guide. Applicants are strongly advised to submit the application well in advance of the deadlines listed below. In particular, applicants to the Co-operative Programs, Education of Teachers in French and the Early Teacher Project in the Physical Sciences should apply before March 1. Applicants to these programs must complete a supplementary application (to be downloaded from the UTSC website). The deadline to return the supplementary forms is March 1 for early consideration for currently enrolled secondary school students; the final deadline is April 1.

2002 Summer Session Deadline:

Term I (beginning mid-May) and Term II (beginning in July) - March 15

2002/2003 Fall/Winter Session Deadline:

Full-time degree study:

- March 1 for 101 applications, for applicants who are currently enrolled full-time in an Ontario high school
- April 1 for 105D applications, for other applications
- April 1 for 105P applications, for applicants who are resident in Canada/USA
- March 1 for 109P applications, for international applicants resident outside Canada/USA

Part-time degree or Non-degree study:

- June 1 - Courses begin in September. UofT does not accept applications to the Winter Session only. Applicants interested in starting in January must apply by the above deadlines.

Non-Degree Students in Management

Regular application deadlines apply but late applications may be accepted for summer, fall and winter sessions if there is space in classes. Obtain an application from Professor R. Powers in the Division of Management, 416-287-7521

General Admission Requirements to University of Toronto at Scarborough for 2002-2003

Applicants from Ontario Secondary Schools under 1998 OSIS Diploma (3 year requirements)

- Applicants must be eligible to receive the Ontario Secondary School Diploma (OSSD)
- Applicants must present at least six (6) Ontario Academic Courses (OAC's)
- One credit must be OAC English 4U/AHP
- Applicants must present credits to satisfy any prerequisites of specific courses or specific programs in which they intend to enroll.
- Applicants must satisfy English Facility Requirements

Applicants from Ontario Secondary Schools Under 1999 OSIS Diploma (4 year requirements)

- Applicants must be eligible to receive the Ontario Secondary School Diploma (OSSD)
- Applicants must present at least six (6) Grade 12 University (U) courses or University/College (M) courses
- One credit must be Grade 12 English ENG4U
- Applicants must present credits to satisfy any prerequisites of specific courses or specific programs in which they intend to enroll.
- Applicants must satisfy English Facility Requirements

English Facility Requirements

Applicants may request the English Facility Requirements brochure from Admissions and Awards, Telephone 416-978-2190

Website: www.library.utoronto.ca/admissions/essential_english.html

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 has 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 OAC English 4U (or equivalent course). Such applicants are, however, encouraged to include English in their preparation for university. If OAC English 4U is completed as an extra credit, applicants will not be penalized by having the result included in their admission average if the grade is low.

3. Acceptable Tests/Qualifications and Required Scores

- The TOEFL as a Foreign Language Paper-Based Test (TOEFL PBT) and the Test of Written English (TWE) or the TOEFL Computer-Based Test (TOEFL CBT)
- Minimum requirements:
  - TOEFL, PBT-total score of 600 and 5.0 on TWE
  - TOEFL, CBT-total score of 250 and 5.0 on Essay

Michigan English Language Assessment Battery. The minimum requirement is an overall score of 85 with no part score below 80.

International English Language Testing System (IELTS). The minimum requirement is an overall band of 6.5, with no band below 6.

Certificate of Proficiency in English (COPE)

The minimum requirement is an overall score of 5 with 2 in Writing and 1 or 2 in Reading and Listening.

See the website for other acceptable tests and requirements.

Note: For an applicant who scores just below the minimum requirements we may consider other evidence of English proficiency (for example, results in English courses).

Prerequisites

Students should choose OAC courses or Grade 12 University and/or University/College courses that will fulfill the prerequisites for university courses and programs they intend to take. Review UTSC brochures, the UTSC website or consult with Admissions and Student Recruitment staff.

Examples:

- Management programs require OAC Calculus (MCB4U) Advanced Functions and Introductions to Calculus and OAC Calculus and OAC Algebra &
Admissions From The United States Of America
Candidates who have completed Grade 12 from an accredited high school with a high grade point average and good scores on the SAT I or ACT plus good results on three (preferred) SAT II exams or AP exams (or combination thereof) will be considered. Transfer credit is awarded for some AP examinations.

Applicants With Other Qualifications
Candidates who wish to apply for admission on the basis of work completed in other countries or on the basis of other qualifications should check our websites or write to Admissions and Awards, outlining their academic qualifications and intended area of study. Information on admission requirements for applicants from overseas is contained in the International Undergraduate Admission Bulletin available from Admissions and Awards.

Mature Students
Applicants who do not hold the published admission requirements may be considered for admission:
1. They are at least 21 years of age by July 15 of the Summer Session or by October 1 of the Fall/Winter Session, and
2. They have been resident in Ontario for a minimum of twelve months by the above dates, and
3. They are a Canadian Citizen or Permanent Resident of Canada or a Convention Refugee claimant as described below (see Status in Canada)
4. They achieve high standing in one of the following: (a) one of Woodsworth College’s Pre-university courses, or (b) one of the University’s屑 Bridging Program courses, or (c) two OAC’s completed within the last 21 years old. One OAC must be English
5. An applicant must have not attempted any post-secondary institution such as a university or polytechnic institute, or must have not completed more than two years of full-time studies in a College of Applied Arts and Technology (or equivalent).
6. Students must receive permission from Admissions and Awards to qualify using the two OAC option or receive permission from Woodsworth College (416-978-4444) of the University of Toronto to qualify for consideration using other options. Therefore, consult before applying to any of these courses. Students who wish to prepare for certain university programs such as science programs may have to do additional studies to ensure all of the prerequisites will be attained.

Note About Status in Canada: An applicant who wishes to qualify as a Mature Student must be in one of the following categories: (a) a Canadian Citizen or Permanent Resident, or (b) officially recognized as a Convention Refugee admitted to and remaining in Canada, or (c) a Refugee Claimant who has applied to the federal government for Convention Refugee status prior to January 1, 1989.

Non-Resident Students
A Non-Resident Student is one who is taking courses at UTSC who is not proceeding towards a University of Toronto’s Bachelor’s degree. Most Non-Resident Students have completed degree study and are taking further courses for their own interests or for professional preparation.

Visiting Student (Non-Resident) on a Letter Of Permission
Students with valid Letters of Permission from other accredited North American universities may apply directly to UTSC to take courses for transfer credit at their own home university. Visiting Student status does NOT imply acceptance for Degree status or any other Non-Resident student status. Call 416-287-7529 for applications or download the application from our website.

www.arts.utoronto.ca/admissions

Senior Citizens
Canadian citizens or permanent residents of Canada who are at least 65 years of age by the first day of term, may apply for admission as part-time Non-Resident Students. Normal application fees are not accepted. Tuition fees will be charged; limited bursary assistance may be available. Call the Assistant Registrar - Admissions at 416-287-7525 for information.

How Decisions Are Made
The specific average or standing required for admission varies from year to year. Students are selected by taking into consideration a wide range of criteria including school marks, presentation of subjects taken, performance in subjects relevant to the academic program selected and, for applicants to co-operative programs, supplementary information required for some programs. While the University of Toronto recognizes that there may be valid reasons for a student to repeat a course, in general, we urge students do as well as possible on their first attempt. In courses which have examinations and scholarships, the University reserves the right to reduce the number of awards. Studen marks are the result of a single attempt at each course.
Possession of minimum requirements does not guarantee acceptance. Because of limitations of space, preference will be given to applicants with the best qualifications. Applications will be considered from candidates whose qualifications do not meet the normal requirements, but such candidates must offer written evidence of exceptional ability, or of examining circumstances. Applicants who matriculate prior to the current year are advised to contact Admissions and Awards for information. The University of Toronto reserves the right to determine whether or not credentials of degree-granting institutions in Ontario meet the standards for admission to University of Toronto programs.

Awards

Unless specified, the following awards do not require an application; all ToT at Scarborough undergraduate students with excellent academic standing are eligible. Students should apply to the Office of the Dean of the Faculty of Arts and Science to be considered for the following awards.

Ontario Student Opportunity Trust Fund Awards (OSTOF)

To qualify for consideration for awards listed below which are described as OSTOF awards, students must usually be considered for the Ontario Student Assistance Program (OSAP).

Admission Awards

NOTE: The calendar is published in March. Check our website in September for updates or changes to the scholarship program.

UTSC allocates entrance scholarships to students entering first year directly from secondary school. A limited number of awards are also available to students transferring from other universities with outstanding academic achievement. For need-based awards, applicants must complete a University of Toronto Advance Planning for Students (UTAPS) application, which is mailed automatically to all applicants who are Canadian Citizens or Permanent Residents of Canada. Successful applicants will be notified of awards received at the time they receive an offer of admission to the University.

In considering students for scholarships, the University reserves the right to give preference to students whose marks are the result of a single attempt at each course.

The National Scholarship Program

The University of Toronto National Book Award Program is intended to recognize and reward the very best Canadian secondary school students, regardless of which university these students choose to attend. Recipients are selected on the basis of academic performance, original and creative thought, and exceptional achievement in a broad context. Canadian schools are invited to nominate one student to receive the Book Award.

Students selected as National Book Award winners have the opportunity to submit applications to the National Scholarship Program. In addition, students who identify themselves as meeting the scholarship criteria are invited to apply directly for the National Scholarship. On the basis of application components, up to 50 students are selected as finalists. The finalists are invited to be the guests of the University during the selection interviews held in the spring. In 2002, the University expects to award approximately 15 National Scholarships. The deadline for submission of Book Award nominations and National Scholarship applications is May 15, 2002. (e.g., June 30, 2002 for 2003 entry)

University of Toronto Scholar Awards Program

This program recognizes outstanding University of Toronto students in each of their first degree course, both on admission and during their course of study. Approximately 120 outstanding admission applicants are selected as University of Toronto Scholars. These awards have a value of $3,000 and may be held in any program of study at the University, in conjunction with admission awards that the students may receive from their faculties/departments.

Awards under the University of Toronto Scholarship Program are not renewable. Outstanding students, however, will be eligible for consideration for University of Toronto (In-course) Scholarships at the end of the first, second and third year of their programs. At UTSC, there are 15 of these awards at each level. These in-course awards are worth $1500 and are tenable with other in-course scholarships.

Placent Admission Scholarship

Awarde 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. Placent, a former principal of University of Toronto at Scarborough.

Frederick A. Urquhart Admission Scholarships

Eight scholarships are awarded to students entering first year on the basis of exceptional academic achievement. The scholarships are awarded in honour of Professor Emeritus F.A. Urquhart, a distinguished entomologist.

University of Toronto at Scarborough Scholarship Program

Secondary school students with excellent standing are considered for merit-based scholarships. Visit our website in the fall for current information. Some scholarships have a financial need component. To be considered for these awards, complete a UTAPS application (mailed to every eligible student who applies to the University).

University of Toronto at Scarborough Alumni Admission Awards

Awarde to students applying directly from secondary school who have demonstrated significant contribution to community service work and who have high academic achievement. Application required.

Admissions and Student Recruitment website to download the form or call 416-287-7526. (3.5 units weighted average, domestic fee) Deadline: March 1

The Scarborough Frank Faubert Scholarships

See next-to-last sponsorship on page:\n
A UTAPS application is required for new students.

John Ball Alumni Entrance Scholarship

Awarded to a student entering first year on the basis of academic excellence in the secondary school program.

Pitzer Consumer Group Entrance Scholarship

Awarded to a student entering first year on the basis of academic excellence in the secondary school program.

Ting Bun Tang Memorial Entrance Scholarship

Awarded to a student on the basis of exceptional academic achievement in the secondary school program. (Donated by the Federation of Chinese Canadian Professionals (Ontario Education Foundation).

University of Toronto at Scarborough Scholarship in Studio Art

Awarded to a student applying to Arts-Humaines who intends to take a program in studio art; awarded on the basis of an excellent portfolio that focuses on exploration of concepts and media. Application required:

Deadline: March 1. Send a cover letter with slides or portfolio and a letter of recommendation from an instructor or arts professional to: The Supervisor, Visual and Performing Arts (Studio)

La Family Scholarships

Awarded to students who are active leaders, are respected and considered to be well-rounded citizens in their school community and who have demonstrated financial need. Applicants must submit a covering letter to outline their community activity and demonstrated leadership skills to: La Family Scholarships, Admissions and Awards, 315 Bloor St. W., M5S 1A3 Deadline: April 30

Frank M. Waddell Scholarship

Awarded to a student from Brant County, Ontario on the basis of academic excellence. Application required. Submit a letter indicating how the Brant County condition is met. Letter of recommendation, Admissions and Awards, 315 Bloor St.W., Toronto ON M5S 1A3 Deadline: April 30
South Asian Alliance In-Course Award
Awarded to a student entering second, third or fourth year on the basis of academic merit and participation in UTSC extracurricular activities that enhances community spirit.
Application or nomination required. Deadline: September 28

The Branko Vojnovic Uott At Scarborough Access Ability Award
Awarded to an undergraduate student entering second, third or fourth year at UTSC who is registered with Accessibility Services and/or has special educational needs due to a disability/illness as defined under the human rights code, is in good academic standing and displays a drive for learning. Preference is given to students enrolled in Management programs.

Joan E. Foley Award
Awarded to a student, alumnae or administrative staff member or faculty member who has made a significant contribution toward improving the quality of academic or extra-curricular student life on campus. Sponsored by the University of Toronto Alumni Association. Nomination required. The deadline is normally in December.

Neil H. Dobbs Award
Awarded to a student on the basis of financial need. Academic merit will also be considered. (OSOTTP)

Stanley Kosta Todorov Scholarship
Awarded on the basis of academic excellence to one or more students registered in a Life Sciences or Physical Sciences program that leads to a Bachelor of Science degree.

Norman P. Brown Memorial Award in Humanities
Awarded to a student enrolled in the second or third year of a program 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.

Glatchell Prize in Science
One prize will be awarded to a student entering the fourth year of the Specialist Program in Cell and Molecular Biology.

2. One prize will be awarded to a student entering the fourth year of a Specialist Program in Computer Science.

3. One prize will be awarded to a student entering the fourth year of a Specialist Program in Environmental Sciences.

Preference will be given to students who have completed at least 10 of the F.C.E.’s required for the program with excellent standing.

Norton Institute Undergraduate Scholarship(s)
The scholarship is open to students in second or third year in the Faculty of Applied Science and Engineering, the Faculty of Arts and Science and UTSC, on the basis of financial need, academic merit and an essay. Application required. Deadline: November 1

The Rouge Watershed Scholarship
Awarded to a student enrolled in an environmental science, ecology or geography program on the basis of excellent academic achievement, strong interest in environmental issues and active participation in environmental projects within the university or community. Application Required. Deadline: April 30 (OSOTTP)

The University of Toronto Women’s Association Lorne Doveman Memorial Scholarship
Awarded to a student on the basis of excellent academic achievement in the third year of a four-year undergraduate degree program.

The All Teyyb Scholarship
Awarded to a student who demonstrates excellent scholarship in political geography or studies of similar nature.

Bradin 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 McFetish Prize in Anthropology
Awarded to the student who is rated first in the final year of the Major or the Specialist Program in Anthropology.

John Pounder Prize in Astronomy
Awarded to a full-time student entering the third year of a physical sciences program on the basis of excellent achievement in ASTAST and one B- or C-level course in Astronomy.

John S. Mark Prize in Canadian History
Awarded to the student with the highest standing in HIST 400A Canadian History.

William Baerdmore Memorial Prize in History
Awarded to a 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 William Baerdmore, a History graduate of UTSC.

The Morrie Krever History Prize
Awarded to a student entering the third year of the Major or Specialist Program in History on the basis of academic performance (at least B+ standing) and financial need. Emphasis is placed on academic performance. Application required. Deadline: September 20

Disenbaker Essay Prize
Awarded on the basis of an essay, 2500 to 5000 words in length, on a topic focusing on Canadian politics or a similar field of Canadian Studies. The essay should have Canada as its primary focus. Essays are normally those submitted for course work. Nominations are usually made by instructors to the Chair of the Division of Social Sciences by April 13, and should include a copy of the essay and a cover page showing full name of the student, student number and the name of the course for which and professor to whom the essay was originally submitted.

McClennan and Stewart Essay Prize in Canadian Studies
Awarded on the basis of an essay, 2500 to 5000 words in length, on a topic focusing on Canadian art, drama, music or literature. Awarded to normally 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 Johnstone English Literature Essay Prize
Awarded to the student enrolled in a major or specialist program(s) in a modern language who, in the opinion of the major or fourth-year instructor, has the highest grade point average in courses satisfactory to the program(s). (minimum G.P.A. 3.2).
Peter Moss Prize in French
Awarded for the best undergraduate essay in French drama. Essays are nominated by instructors.

Arts Fitzgerald Prize in Women's Studies
Awarded for the best essay in the area of Women's Studies. Essays are nominated by instructors.

Dr. Vivian Paskal Memorial Prize in Psychology
Awarded to a full-time student entering the fourth year of the Specialist Program in Psychology, on the basis of excellent academic achievement.

The Katherine Nagel Philosophy Prize
Awarded to the student in the Major or Specialist Program in Philosophy before the beginning of the third or fourth year of study whose grades and performance in Philosophy, in the opinion of the Faculty in Philosophy, have best demonstrated excellence in the subject.

Marguerison Scholarship in English
Awarded to an outstanding student who has completed the second year of the Major or Specialist Program in English.

Katherine Theil Prize in English
Awarded on the basis of excellent achievement in the course ENG 11713 Introduction to Literary Study: The Twentieth Century and ENG 21213 Writing Workshop for ENG 11713.

Leighie Lee Browne Scholarship in Drama
Awarded to a student displaying outstanding ability in the dramatic arts who is either continuing in a Drama Program UTSC or in graduating and has registered in an advanced training program in the dramatic arts. Application required. Deadline: June 1

Abram Krashinsky Prize in Music
Awarded for the best essay or original composition in a course in music offered at UTSC.

Abram Krashinsky In-Course Scholarship in Visual and Performing Arts
Awarded to a student enrolled in a program in the Visual and Performing Arts who (i) has completed at least 10 full courses and (ii) has achieved excellent standing in VPA courses.

Jane Bencroft Scholarship in French
Awarded to a student who is entering the third or fourth year in a Major or Specialist Program in French on the basis of outstanding achievement in French studies. A minimum of 4 full course equivalents must be completed.

Arthur Louden Scholarship(s)
Awarded to one or more students enrolled in the Early Teacher Project (open to students enrolled in Physical Sciences Scarborough programs) on the basis of academic achievement (minimum 3.3 G.P.A.).

University of Toronto at Scarborough Physics and Astronomy Prize
This award is currently under review.

Toronto Kanteur Leo Club Prize in Physical Sciences
Awarded to a student enrolled in the Division of Physical Sciences' Early Teacher Project on the basis of excellent academic achievement and contribution to the program through leadership activities and success in the teaching practicum.

Toronto Kanteur Lions Club Prize in Environmental Science
Awarded to a student enrolled in an environmental science program on the basis of excellent academic achievement. Preference is given to a student entering the fourth year of the Environmental Science stream who has shown evidence of a commitment to a career in Environmental Chemistry.

The William D. Peake Award in Biology
Awarded to a full-time student entering the second year of any program in the biological sciences on the basis of excellent achievement in BIOG 1001 Introductory Biology (minimum 3.4 G.P.A.). Emphasis will be placed on the placement of the course and overall contribution to the class.

University of Toronto at Scarborough Prize in Biology
Awarded to a full-time student entering the fourth year of a specialist program in biological sciences on the basis of excellent academic achievement. Emphasis will be placed on the achievement in the third year of study.

Yvonne and John Chiou Award in Genetics
Awarded to a student enrolled in a biological sciences program who has the highest grade in BIOG153H3 Transmission Genetics.

The Prudential Insurance Company of America, Canadian Operations, Scholarship

The Prudential Scarborough Spirit Award
Awarded to a full-time undergraduate student entering second, third or fourth year who has demonstrated outstanding leadership qualities in his/her school or community who (i) is a Canadian Citizen or Permanent Resident, (ii) has a good academic record (minimum B average/3.0 G.P.A.), and (iii) demonstrates financial need. Application required. Deadline May 31

The Prudential Ability Award
Awarded to an undergraduate student entering second, third or fourth year who has special educational needs due to a physical or learning disability who (i) has demonstrated outstanding leadership qualities in his/her school or community, (ii) is a Canadian Citizen or Permanent Resident, (iii) has a good academic record (minimum B average/3.0 G.P.A.) and (iv) demonstrates financial need. Application required. Deadline May 31

The Prudential Management and Economics Award
Awarded to a full-time undergraduate student entering second, third or fourth year in a program in the Division of Management who has demonstrated outstanding leadership qualities in his/her school or community who (i) is a Canadian Citizen or Permanent Resident, (ii) has a good academic record (minimum B average/3.0 G.P.A.) and (iii) demonstrates financial need. Application required. Deadline May 31

The Prudential Scarborough Frank Fauld Scholarship
See Financial Need section below.

Brian David Radford Memorial Scholarship
Awarded to one or more students entering the third or fourth year of a Management program whose academic and extracurricular achievements, combined, best exhibit dedication to excellence. Minimum grade point average of 3.3 (B+). Application required. Deadline September 20

Management Accounting Student of Merit Scholarship
Awarded to the student who has completed the third year of study in the Specialist Program in Management and who has completed the following courses with the highest average grade: MGTB203H, MGTB235H, MCTC209H, MCTC210H, MCTC275H. Donated by The Society of Management Accountants of Ontario

Keith and Amalia Ellis Award in Management and Economics
Awarded to a student entering third year in a degree program in the Division of Management on the basis of financial need. Preference will be given to a candidate who has shown a marked improvement in academic standing from year one to year two.

The Harvey Balikin Award in Financial Accounting
Awarded to a student completing the third year of the Specialist Program in Management with the highest average (at least A minus) of grades achieved in MCTC271 and MCTC273. Donated by KPMG

Ho Chak Wan Memorial Scholarship in Management
Awarded to a student entering second, third or fourth year in a management program. Financial need must be considered in addition to academic merit. (OSOTP*)

Mr. Sub Award in Management
Awarded to an undergraduate student enrolled in a management program on the basis of financial need. Donated by Mr. Submarine Limited

Myr Brody Prize in Entrepreneurship
Awarded to an undergraduate student enrolled in a management program who has the highest grade in the course MGTSC383H Entrepreneurship: Practicum (minimum A minus.)

Pittar Consumer Group Arts Management Scholarships
One scholarship will be awarded to a student enrolled in the Co-operative Program in Arts Management who has demonstrated outstanding academic achievement. One scholarship will be awarded to a student enrolled in the Co-operative Program in Arts Management who has demonstrated outstanding achievement on the work placement.
University of Toronto at Scarborough
OSOTF Scholarships
Awarded to students enrolled in
undergraduate degree programs on the basis of
financial need. Academic merit will also
be considered. (OSOTF*)

Frank M. Waddell Scholarship
Awarded to a student from Brant County,
Ontario on the basis of academic excellence.
Application required. Check Award Binder
in Room 302 for deadline.

Andrew Tsang Memorial Scholarship
in Sino-Canadian Studies
Awarded to an undergraduate, whose
academic performance and extra-curricular
activities in the area of Chinese studies and
Sino-Canadian studies best exhibits
commitment to Chinese-Canadian cultural
and economic ties.

Samuel Beatty In-Course Scholarships
Awarded to students enrolled in second,
third or fourth year, in a Specialist Program
offered by the departments of Mathematics,
Physics or Computer Science (Faculty of
Arts and Science, U of T at Scarborough) 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 3.6) in the most recent five full courses,
may be considered. Application required.

APUS Award for the University of
Toronto's 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 courses, and (b) have demonstrated
outstanding achievement or commitment in
accomplishments 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
part-time may be considered. Sponsored by
APUS. Application required.

University of Toronto Undergraduate
Bursaries or Grants
Applications must demonstrate financial
need. Applications may be obtained from the
Office of the Registrar Room 530; Deadline:
November 1; however, applications will be
accepted after this date should emergencies
arise and funds still be available.

University of Toronto Advance Planning
for Students (UTAPS)
Students who are concerned about financing
their university studies can obtain early
information about government and other
financial assistance by completing a UTAPS
application. These applications are mailed in
the spring to all Canadian citizens and
permanent residents who have applied for
admission to full-time studies at the
University of Toronto. The student will
receive notification of UTAPS eligibility with
the offer of admission. Returning students,
with calculated term need above their
government-funding maximum, will receive
an application for UTAPS bursary assistance
in the fall.

The Scarborough FrankFaubert
Scholarships
Awarded to students entering first, second or
third year in a degree program offered by the
Division of Management on the basis of
financial need. Eligible candidates are to be
limited to graduates of high schools within
the geographic limits of the Corporation of
the City of Scarborough as it existed on
December 31, 1997. (OSOTF*)

Scarborough-York Region Chinese
Education Association Bursary
Awarded to students enrolled in the
Co-operative Program in International
Development Studies who are starting their
work placement. Financial need must be
considered. (OSOTF*)

Wu Yew Sun Scholarship
Awarded to a student enrolled in the Co-
operative Program in International
Development Studies who is starting the work
placement. Financial need must be
considered. (OSOTF*)

International Development Studies
Scholarship
Awarded to students enrolled in the Co-
operative Program in International Development
Studies who are starting their work placement.
Financial need must be considered. (OSOTF*)

M'Sheehan Child Care Bursary
Awarded to a student enrolled in a
child care program based on the
basis of financial need. Bursary must be applied for
at M'Sheehan. Application required.
Deadline: July 31, 2002.
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.

Government Financial Aid
The Ontario Student Assistance Program (OSAP) is available to Ontario residents who are Canadian citizens or permanent residents to assist with educational and living expenses. OSAP loans are interest-free and non-repayable while the student remains enrolled in full-time studies. Information concerning the eligibility and assessment criteria may be obtained from: Ministry of Training, Colleges and Universities OSAP website http://osap.gov.on.ca or Financial Aid and Registrarial Services, Room S303, 1255 Military Trail, Toronto ON M1C 1A4, 416-287-7001.

OSAP application forms available on-line at the Ministry website. Applications are also available for pick-up in Room S303. It is recommended that returning students apply for OSAP assistance for the 2002/2003 Fall/Winter Session by May 31 and new students by June 30. Check with staff regarding summer deadlines.

Students from other Canadian provinces should apply through their provincial financial aid program. Admissions and Awards can provide addresses, and, in many cases, application forms.

University of Toronto Work-Study Program
This program is funded by the University and the Province of Ontario. It is intended for students with special financial needs. Information and applications are available from the Admissions, Career and Student Success Centre, Room S302 Financial Aid and Registrarial Services, Room S303.

Bursary for Students with Disabilities
Non-repayable assistance of up to $2,500 is available from the federal and provincial governments for OSAP-eligible students who have special educational expenses as a result of a disability. Information and applications are available from Admissions and Awards, University of Toronto 495 Bloor St. W., Toronto ON M5S 1A3.

*Ontario Student Opportunity Trust Fund Awards (OSOTF)
To qualify for consideration for awards listed above which are described as OSOTF awards, students must qualify for consideration for the Ontario Student Assistance Program (OSAP).

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 Teryeb & Prizes in Geography
Awarded to the outstanding student graduating in Geography in a Major or Specialist program.

The Bob Shirley Prize in Anthropology
Awarded to the outstanding student graduating in Anthropology, in a Major or Specialist Program.

The Irwin Publishing Prize in Classical Studies
Awarded to the outstanding member of the graduating class who has completed a Minor or Major Program in Classical Studies.

Forris Prizes in Psychology
Awarded to the outstanding member of the graduating class who has completed the Specialist Program in Psychology.

CGA Ontario Award for Excellence
Awarded to an outstanding graduating student completing a Management program who has displayed excellent achievement in accounting as an average of at least B plus in MGTCH, MGTCHM, MGTCHM, and MGTCHM. Preference will be given to students who intend to enter in the CGA program. A declaration is required. Write to the Director of Registrar Admissions by May 15.

Robert James Prize in Sociology
Awarded to the outstanding student graduating in Sociology in a Major or Specialist program.

The Society of Chemical Industry Student of Merit Award
Awarded to a member of the graduating class who has completed a Specialist program in chemistry to recognize academic achievement in the final year. (Minimum G.P.A. of 3.00/95% has completed the degree within the normal period of years)

Orpheus Prize in Humanities
Awarded to an outstanding member of the graduating class who has completed the College Program in the Humanities, the Major Program in Music History and Literature, or the Specialist Program in the Arts.

Graduation Prize in Political Science
Awarded to the outstanding student graduating in Political Science.

Graduation Prize in Linguistics
Awarded to the outstanding student graduating in Linguistics in the Major Program.

Digital Equipment of Canada Limited Award of Merit
Awarded to the most outstanding student graduating in Computer Science at the University.

John H. Moss Scholarship
Exceptional full-time students graduating in the spring who intend to enter a graduate or second undergraduate degree program should request an application for this prestigious scholarship from the University of Toronto Alumni Association in the fall. The deadline is normally in early December.

Gordon Creevy Student Leadership Award
To qualify for consideration, students must be in their final year, be in good academic standing and must have made a substantial contribution to their college, faculty, or the University as a whole. The award, established by the University of Toronto Alumni Association, requires a nomination by University of Toronto at Scarborough. The selection deadline is normally in January.

University of Toronto at Scarborough Honours List
University of Toronto at Scarborough publishes annually a 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 3rd, 10th, 15th and 20th credit. Other students may be nominated by the academic divisions.

Graduation With High Distinction and With Distinction
University of Toronto at Scarborough students who have completed at least ten full-courses while registered to Scarborough and the University of Toronto Faculty of Arts and Science, will graduate with high distinction if their cumulative grade point average is 3.20 or better and will graduate with distinction if their cumulative grade point average is between 3.20 and 3.49. Other students with a cumulative grade point average of 3.20 or better will be considered on an individual basis.

Student Responsibility
Students are responsible for making themselves familiar with the information in this Calendar, particularly with this section, as well as instructions published periodically by the Registrar's Office. Students whose registration contains any regulations may be withdrawn from courses, regardless of where the contravening comes to light. Members of the Registrar's Office and the Advising, Career and Student Success Services will assist students in interpreting the regulations and explaining their application in particular cases. Where appropriate, they will help those who encounter special difficulties to request special consideration.

Calendar changes
The information published in this calendar outlines the rules, regulations, curricula and Programs for the 2002 Summer Session (May to August) and the 2002 Fall/Winter Sessions (September to May). The University of Toronto at Scarborough reserves the right to change without notice any information contained in this Calendar, including its rules, regulations and the publication of information in this Calendar does not bind the University to the provisions of courses, Programs or facilities as listed herein.

Enrolment limits
The University reserves the right to set the number of students that can register in any Program or course where the number of qualified students exceeds the teaching or other resources available. As far as possible, places will be available for incoming students on a first-come, first-served basis.

Photo identification cards – Tcards
All students are required to have a photo identification card. Tcards are photo identification cards that serve as both a proof of registration and a library card. Students who do not have a photo identification card (Tcard) should obtain one from the Registrar's Office. Cards are provided free of charge to all new students. A fee is charged to replace cards.
Course key

The Courses Code
1. The Subject Abbreviation
The first three characters of the course code indicate the subject area of the course. ANTH4795 "ANT" indicates a course in Anthropology. CHM45843 "CHM" indicates a course in Chemistry. HEDS4645 "HED" indicates a course in Education.

2. The Course Level
The fourth character of the course code indicates the level of the course with "A" indicating the most elementary level and "D" the most advanced.

3. The Course Number
The fifth and sixth characters of the course code are course numbers. In most disciplines, these numbers have no significance, except to identify the course in a shorthand form.

4. Credits Value of a Course
The seventh character of the course code indicates the credit value of a course as follows:
- A Full Course
- B Half Course

Prerequisites in Square Brackets
Square Brackets are used by prerequisites to indicate specific or alternate choices. For example, "ENGRO337Y1 or ENGRO331Y1" indicates that either course can be taken.

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. Courses are not always mutually exclusive, so it is important to check the entries for both courses when one lists the other as an exclusion.

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 the prerequisite and without obtaining a specific waiver, the student may be withdrawn from the course at any time. Students who are not withdrawn from the course remain in it at their own risk. For lack of the prerequisite, the course is not grounds for special consideration. Students who complete courses for which they have obtained a waiver of specific prerequisites may not subsequently obtain credit for the less-advanced prerequisite courses.

3. Corequisites
Students must either already have passed the corequisite course, or must enrol in it at the same time as they take the course being described. Instructors are permitted to waive corequisites if they feel that there are adequate grounds for doing so. If students register in a course without meeting its corequisite, or if they withdraw from the co-required course without obtaining a specific waiver of the corequisite, they may be withdrawn from the course at any time. Students who are not withdrawn from the course remain in it at their own risk, for lack of the corequisite is not grounds for special consideration.

Course selection

1. Selecting their courses, students must follow the following regulations.

   - Preparatory and corequisite courses for each course are excluded from the course description. When the course description is of the form "even if already satisfied", another course shown in the course description is an exclusion to that course.
   - Students may not register for credit in a course if they have already passed.

   - Students may not re-register for credit in a course if they have already passed.

   - Students may re-register in a course only if they have obtained permission from the instructor.

   - In the latter case, both registrations in the course shown on the student's record and both grades count in the student's grade point average.

2. Students may not register for credit in a course which is a specific requirement for a degree to which they have already passed.

3. 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 unless the course counts towards the degree.

4. Students may normally select as many courses as they wish each session. Students should, however, note the following:
   - The usual load maximum for a full-time student from September - May (Fall & Winter Session) is 5.0 courses.
   - The usual load maximum for a student from May - August (Summer Session) is 2.0 courses.

5. 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.

6. Students who wish to register in courses in the St. George or Erindale areas may be admitted to UTSC courses and vice versa. If UTSC, Erindale and St. George courses have different titles or content, connect the Divisional Offices offering the course(s) to determine if the course(s) content is so similar that the courses should be considered as exclusions.

Supervised Reading, Supervised Research, and Independent Study Courses

Courses in these courses work under the direction of a faculty member with whom they meet periodically or in whose laboratory work. Students must obtain written permission of instructors before enrolling in the course. Forms are available from the Registrar's Office. Please note that some courses require submission of their own special application forms for courses of this type in addition to the Supervised Study Form.

Course Selection

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Value: Y = Yes, N = No, 1 = Yes, 2 = No
Y = Only, 0 = None

Procedures for selecting courses:

1. Students must register for courses prior to the Fall and Winter Sessions.
2. Exclusions, prerequisites, and corequisites must be observed.
3. Students must complete the requirements for their program of study before registering for courses.
4. Students must register for credit in a course or as an extra course.
5. Students may not register for credit in a course which is a specific requirement for a degree to which they have already passed.
6. 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 unless the course counts towards the degree.
7. Students may normally select as many courses as they wish each session. Students should, however, note the following:
   - The usual load maximum for a full-time student from September - May (Fall & Winter Session) is 5.0 courses.
   - The usual load maximum for a student from May - August (Summer Session) is 2.0 courses.

8. 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.
9. Students who wish to register in courses in the St. George or Erindale areas may be admitted to UTSC courses and vice versa. If UTSC, Erindale and St. George courses have different titles or content, connect the Divisional Offices offering the course(s) to determine if the course(s) content is so similar that the courses should be considered as exclusions.

Supervised Reading, Supervised Research, and Independent Study Courses

Courses in these courses work under the direction of a faculty member with whom they meet periodically or in whose laboratory work. Students must obtain written permission of instructors before enrolling in the course. Forms are available from the Registrar's Office. Please note that some courses require submission of their own special application forms for courses of this type in addition to the Supervised Study Form.

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Registration

Students are responsible for the accuracy of their own registration. When selecting, adding and dropping courses, they should always list their courses on completing a transaction. Registration consists of two basic steps:

1. Course selection, and
2. Fees payment.

Both must be completed by the appropriate deadlines in order to be considered a "registered" student and to retain a place in any course selected. (For deadlines and further information, see the registration material published separately for each session.)

Course selection

Courses may be selected through ROSI. (For regulations on course selection, see page 239.)

Fees payment

All fees are posted to the student's account. Information on the fees process is included in the registration package. Students will also receive a invoice detailing fees payable for their program of study. For further information contact Student Accounts, University of Toronto, 215 Harper St, Toronto, Ontmario, M5S 1A2; telephone 416-978-2142, fax 416-978-5572, email fees@stnca.utoronto.ca.

Program registration

All degree students with at least 4.0 credits are required to register in their Specialist, Major or Minor Programs. Students may only register in Programs offered by University of Toronto at Scarborough. (For regulations governing Programs, see page 15 of this Calendar.)

Summer Session

The Summer Session registration begins April 8. Students who registered at UTSC in the 2000/2001 Summer Sessions or the 2000/2002 Fall & Winter Sessions and who are not on suspension are eligible to register. On March 26 & 27, students may pick up their registrations packages in the Meeting Place. New students, students who re-enrolled (i.e. reactivate their enrolment 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 Session are assigned on a first-come-first-served basis.

Fall & Winter Sessions

The Fall/Winter Session registration begins on July 1. Students who registered at UTSC in the 2000/2001 Fall & Winter Session and who are not on suspension are eligible to register. Registration packages will be available in the Meeting Place March 26 & 27.

ROSI Services

ROSI Services are available through ROSI's website: www.rosi.utoronto.ca. UTSC students may use this service to:
- view their academic record
- add and change programs
- check the status of their course requests
- list classes on their record
- check to see if there is still room in a course
- add and drop Specialist, Major or Minor Programs
- verify their G.P.A.'s and academic status
- view their academic record
- request a transcript
- confirm intention to graduate
- change their PIN

Course changes

Students may add courses or withdraw from courses without academic penalty up to the dates stated in the Academic Calendar on page 6, through ROSI. The deadlines for adding or withdrawing from courses are strictly applied. Students who make changes through the UTSC Web Office will, however, be mailed a remitted copy of their course selection form and should retain it until they have received their statement of results for the particular session. Students who make changes through ROSI should end their transaction by listing their courses to ensure that the change has been processed properly. They will not receive written confirmation of the change but it will be recorded in the student's academic record. Students who withdraw from courses by the appropriate deadline may be entitled to a fees adjustment. (See the fees information published each session for more information.)

Adding a course

Some courses have a restricted admission and may require approval before students are allowed to enrol in them. Restricted courses and the approval will be listed in the Timetable.

Changing meeting sections in a course

Students may change meeting sections in a course at any time provided that, if the change takes place after the deadline for adding the course, the student have appropriate approval. Approval normally comes from the instructor of the new meeting section or from the course coordinator. Changes must be recorded at the Registrar's Office through ROSI (until the last day to add the course).

Dropping 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 withdrawing from a session may wish to speak to an academic advisor about the academic and financial consequences of withdrawal.

Standing in a course

Grading scale (as of September 1998)

Students are assigned a grade in each course as follows: A, B+, B, B-, C+, C, C-, D, F. Grades earned prior to September 1996 will remain as originally reported.
Overall Standing

Grades

<table>
<thead>
<tr>
<th>Grade</th>
<th>Value</th>
<th>Equivalent</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.0</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>3.7</td>
<td>Good</td>
<td></td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
<td>Adequate</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
<td>Marginal</td>
<td></td>
</tr>
<tr>
<td>C+</td>
<td>2.7</td>
<td>Wholly Inadequate</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>2.3</td>
<td>No Credit in Credit-No Credit course</td>
<td></td>
</tr>
<tr>
<td>D+</td>
<td>2.0</td>
<td>Inadequate</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>1.7</td>
<td>No credit in Credit-No credit course</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
<td>No credit in Credit-No credit course</td>
<td></td>
</tr>
</tbody>
</table>

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

Credit/no credit courses.

In some courses, such as certain visual and performing arts courses, specific letter grades may not be assigned. Students may instead be graded on a Credit/No credit (CR/NCR) system.

The grade of "No credit" is a failing grade. Where students earn a grade of "Credit" in a course, the course is not included in the grade point average; where students earn a grade of "No Credit", the course is included as an "F" (value zero) in the grade point average.

Agreement standing.

On petition, a grade of "Agreement" (ABD) may be assigned. This grade is assigned on the basis of work completed where medical or similar evidence demonstrates that a student is unable to complete course requirements within a reasonable time, and where a student has already completed at least 60% of the work of the course with a grade of C status or better.

Where a student is assigned Agreement standing, the course is not included in any grade point average. Students who require a letter grade will be expected to complete the work of the course.

Extra (EX) courses.

Extra courses are those courses in which students may not register for credit (see "Course Selection" on page 295). 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.

Other notations.

The following have no grade point value and do not yield credit:

WDR = Withdrawal by petition without academic penalty after the relevant deadline. (See "Special Consideration, Petitions and Appeals" on page 257.)

GRW = Grade withheld pending review

NGA = No grade available

SDP = Standing deferred on the basis of incomplete course work

because of medical or similar reasons.

IFR = In progress

Overall standing.

Grade point averages (G.P.A.‘s)

1. 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 and this total is divided by the number of full courses (or equivalents) taken.

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

3. An annual grade point average is calculated on the basis of all courses taken in the Fall/Winter sessions (September - May) having a grade point value.

4. A cumulative grade point average is calculated on the basis of all courses taken having a grade point value.

The following grade point averages will be calculated for all students at the end of each session and shown on the student’s transcript:

- Sessional and Cumulative G.P.A.
- Full Session G.P.A.
- Sessional and Cumulative G.P.A.
- Winter Session G.P.A.
- Annual and Cumulative G.P.A.

Determination of academic status for students admitted on condition

In special circumstances, students who do not meet normal admission requirements may be admitted on condition. The academic status of each student is determined according to the following rules:

1. The status of students admitted on condition will be assessed at the end of the session in which such students complete 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 said to be 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. Upon their return from suspension, their academic status will be assessed as it is assessed for any other student returning from suspension.

Determination of academic status for re-enrolling students at University of Toronto at Scarborough.

Students who have studied at other institutions since their last registration at UTSC must arrange for official transcripts of other post-secondary studies to be sent to the University of Toronto at Scarborough upon application for re-enrollment.

Performance in courses taken elsewhere (including other divisions of the University of Toronto) will be taken into consideration in determining whether to approve the application and whether to make any change in the student's academic status.

Students who study at other universities without prior permission from the University of Toronto at Scarborough are unlikely to be eligible for transfer credit for such study. See also the section "Study at other universities".

Grade reports.

Final grades and academic standing are made available through BOSI. Grades are available as soon as they have been submitted and approved. Academic standing is available in early September for students enrolled for the Fall session and in early May for Winter Sessions.

Grade reports are made available to students who are on academic probation, suspended or refused further registration.

Study at other institutions or other divisions of the University of Toronto.

Courses taken for credit by degree students will be considered at the University of Toronto’s Faculty of Arts and Science. Courses taken for credit at the University of Toronto at Scarborough grade point average and all University of Toronto at Scarborough courses taken for credit will be considered at the University of Toronto at Scarborough. Courses taken while registered at other institutions or other divisions of the University of Toronto are not included in grade point averages.

[Page 243]
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 who are registered at University of Toronto at Scarborough must adhere to the requirement that at least half their courses (defined as the total number of courses that they have passed plus those in which they are currently enrolled) are University of Toronto at Scarborough courses. Students are not permitted an imbalance of courses with the intention of achieving the required distribution in a future session or by the time of graduation.

Courses in Other Faculties
Students are not permitted to register for courses in Faculties other than Arts and Science unless they have received permission or unless the courses are required by their Specialist or Major Program.

Transfer to the Faculty of Arts and Science
Students who are contemplating transfers to other Colleges in the University should be aware that University of Toronto at Scarborough in fact a separate faculty and rules covering students at University of Toronto at Scarborough 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 the University of Toronto at Scarborough are required to supply official transcripts upon request for any courses at universities that are not permitted.

There are three types of Programs where credit transfer is considered: A Letter of Permission, a program or course at a university similar in setting to the University of Toronto. Usually, students are studying on a part-time basis on a letter of permission. A Study Elsewhere program allows a student to study full-time at an accredited university in a different cultural setting to enhance the student’s educational experience. The program is called “Study Elsewhere” where we do not have exchange agreements in place with other universities. Where we do have exchange agreements with other universities, the program is called the Student Exchange Program. The advantage of a Student Exchange program is that it provides an opportunity for students to pay fees at their home university.

The regulations governing the Programs are different.

(b) Letters of Permission

To take a course at another university, students must in advance, apply for and receive a "Letter of Permission" from UTSC. Requests should be addressed to the Assistant Registrar—Admissions, Room 33001. Requests should include the name of the university, the course number, title and description. Courses equivalent in name, credit and Science degree credit at this university to a student's academic status must give reasons why the Letter of Permission is necessary.

To be considered, a student must have completed the equivalent of one year of study and have received between 5.0 and 6.0 in Science degree credit. A maximum of 3.0 credits may be obtained on at least 3.0 credits of 5.0 or more transfer credits upon agreement with the Dean of Science. A student must receive at least a C level or 61% level of permission will be permitted to part in a Letter of Permission. A student who completes the final course for the degree during the Winter Session may not apply for graduation at the University of Toronto until he or she has completed the program or course.

A fee will be charged for each Letter of Permission.

Special Note: French Summer Immersion Programs

The Summer Language Barry Program (SLBP) is administered by the Council of Ministers of Education for Saskatchewan, Manitoba and Ontario, and the French Language Barriers Program (SLBP) is administered by the Ministry of Education, Government of Canada, in co-operation with the appropriate provincial department. In Ontario, this is the Ministry of Training, Colleges and Universities.

Students interested in this five week immersion Program in Quebec or elsewhere in Canada should complete the burnary forms promptly upon submission by the Ministry, College with the Advising, Career and Student Success Centre, Room 5352, in December for expected date of arrival. The application may be downloaded from the Ministry Website: http://www.cmce.ca/english/english/SLBP/SLBP_E_master.htm

Speak to the Program Coordinator in the French Language Barriers Program for advice about choosing three universities offering courses which closely correspond to the curriculum at the University of Toronto. If you wish to be considered for transfer credits, choose programs offered at ‘degree-granting’ institutions (not colleges) and sponsored by Arts and Science type faculties (not professional faculties). Submit the form to the Registrar of Admissions (Room S403) to verify registration and mail promptly to enhance your chances of obtaining your first choice of university. Once you know the university to which you have been accepted and at least two weeks before your departure, apply for a Letter of Permission. You will be advised if the request for transfer credits has been approved in order to be eligible for the credit to be transferred.

(b) Study Elsewhere Program

To apply for a Study Elsewhere Program, students may obtain an application from the Assistant Registrar—Admissions, the Associate Dean, or the Student Success Centre. The application requires information about the proposed courses to be taken and the student should be sure to show the intended studies will enhance the degree at UTSC. Students who intend to count the courses towards the degree must obtain the approval of the Program Supervisor before submitting the application. Students normally apply for a Study Elsewhere year during the third year of a four-year program. However, students who are completing four full-course equivalents at UTSC to be eligible may do so at the cumulative grade point average of 2.5 or better. Students must normally return to

UTSC 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 Assistant Registrar—Admissions by March 1. The application will be reviewed by the Study Elsewhere Committee.

Since there may be limited information about foreign universities, students should begin their research early in October. 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 University of Toronto faculty.

(b) Student Exchange Programs

The University of Toronto operates several institution-wide student exchange programs, providing excellent opportunities for academic and cultural exchanges and abroad in other regions of Canada. Interested students apply through the International Student Office for credit. The application deadline for most programs is February 7, 2003, while that for the Ontario/Alberta-Wittenberg Program is January 8, 2003. A typical application is comprised of an application form, academic transcripts, resume and photos, and two references. Candidates who qualify for the programs to which they have been accepted are subsequently interviewed. Applicants are selected for nomination based on the whole application package, including the interviews. If nominated, students then submit applications directly to the host institutions. Though it rarely happens, partner institutions reserve the right to refuse nominated students. As the Hermitage Castle Program (EC-UASP), the Australian and the港澳 Abroad Program at Nantes is not available for this program, and the application procedure is different—contact ISXO for details.

If accepted, UTSC students must seek approval from Program Supervisors and Admissions & Student Recruitment at UTSC for courses they intend to take, using the Pre-Departure Course Approval form, signed, and the nomination package.
Below is a list of institutions at which undergraduate programs are available.

International Programmes:
- Chinese University of Hong Kong (China)
- Heriot-Watt University (U.K.)
- Humboldt University of Berlin (Germany)
- Kyoto University (Japan)
- Lancaster University (England)
- Lund University (Sweden)
- Lyon 1, Claude Bernard University (France)
- Lyon 2, Luminy University (France)
- Lyon 3, Jean Moulin University (France)
- National Taiwan University (Taiwan)
- National University of Singapore
- Nihon University (Japan)
- Osaka/Baden-Württemberg Program - A regional program comprised of 5 universities (Germany)
- Sciences Po Paris (France)
- Study Abroad Program at尼斯 (France)
- Tairu University (Japan)
- Technion Institute of Technology (Israel)
- The University of Amsterdam (The Netherlands)
- University of Auckland (New Zealand)
- University of Birmingham (England)
- University of Bournemouth (England)
- University of Edinburgh (Scotland)
- University of Freiburg (Germany)
- University of Glasgow (Scotland)
- University of Hong Kong (China)
- University of Manchester (England)
- University of Melbourne (Australia)
- University of New South Wales (Australia)
- University of Nottingham (England)
- University of Otago (New Zealand)
- University of Queensland (Australia)
- University of Sydney (Australia)
- University of the West Indies (Barbados, Jamaica, Trinidad, and Tobago)
- University of Venice (Italy)
- Upstate University (Sweden)
- Waseda University (Japan)

Canadian Programmes:
- Canada Scholarships Program (CAXNEX)
- Concordia University
- McMaster University
- University of British Columbia
- University of Western Ontario

International Student Exchange Office, Roddick Student Services Centre Room 202 214 College St., Toronto, ON M5T 2C9.
Tel: (416) 946-3138, Fax: (416) 978-6110, E-mail: intxchange@utoronto.ca
Website:
http://www.utoronto.ca/studentexchange

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 universities using a grading scale similar to that of the University of Toronto). Grades are not recorded on transcripts and are not included in any grade point averages. The student must arrange for the host university to send an official transcript to the University of Toronto at Scarborough promptly after completion of the course. Students who do not register or who 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" or failure being entered on the student's transcript at the university of Toronto.

Fees and Aid:
Students pay the appropriate fees to the host university and a study allowance fee of 2.5% (or $100, whichever is greater) will be charged by the University of Toronto at Scarborough. Students who are eligible for financial assistance through the University of Toronto Student Aid Program for study at University of Toronto at Scarborough may be eligible for similar assistance through their Study Abroad year. (Consult the Student Awards division of Admissions and Awards at 416-978-2190.)

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

Contents:
The transcript records the following information:
1. Information to identify the student:
   - full name and university number
2. The student's academic record, listed chronologically by session.

Each course attempted, in its abbreviated title, and its grade:
- the sessional grade point average;
- the cumulative grade point average at the end of the session;
- the annual grade point average;
- the student's academic status at the end of the session: in good standing, on academic probation, suspended for one year, suspended for two years, or suspended for three years.

Additional information may be included on the transcript, as required by the University of Toronto or the host university.

3. The following kinds of special consideration granted by petition:
   (See "Special Consideration, Fines and Appeals" on page 257.)
   - withdrawal without academic penalty from a course after the relevant deadlines.
   - "Standing in a course" on page 242;
   - deferral of suspension;
   - award of academic standing;
   - other considerations deemed to have altered the academic record.

Ordering Official Copies:
Students may obtain copies of their academic transcripts, subject to reasonable notice and upon payment of a fee. All requests for transcripts are processed centrally at the University of Toronto Transcript Centre on the St. George Campus. Copies of transcripts may be ordered via the Student Web Service (SW5) at the following address:
http://www.utoronto.ca/uts/autoregistration. Requests may also be made in person, or by writing to the University of Toronto Transcript Centre, 100 St. George Street, Room 1006, Toronto, ON M5S 3G3.

Payment by mail should take the form of a cheque or money order payable to "The University of Toronto." A fee of $8.00 which includes the PST and GST is charged per transcript. Telephone orders cannot be accepted. To prevent tampering, most institutional recipients insist that the transcript copy be sent directly to them.

Unofficial Copies:
Current students can obtain an unofficial copy of their academic record at no cost directly from the Student Web Service:
http://www.uts.utoronto.ca

Policy on access to student records
1. Prerequisite
   (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 students of academic divisions of the University.
   (b) The purpose of this policy is to combine flexibility with in such a way as to ensure that:
      (i) Students, alumni and former students are allowed to acquire a great deal of access in their own academic records as is academically 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 of Toronto, academic divisions may retain some flexibility in the implementation and application of the policies of this document.
   (c) Individual divisional regulations and procedures on access to student academic records, including the manner in which the divisional calendar concerning such shall be reported by the Provost to the Committee on Academic Programs. Any subsequent revisions shall also be reported.
   (d) This policy supersedes the 1979 access policy for undergraduate student records and the 1981 access policy for graduate student records. 
2. 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) "alumnus or alumna" 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 in 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 alumna who has been registered at the University in a program as defined in Section 2(a), 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 programs, academic programs, including academic policies and procedures, and to issue its own academic 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 record
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) (i) Personal information which is required in the administration of official student academic records such as name, student number, citizenship, social insurance number,
(ii) Registration and enrollment information,
(iii) Results for each course and academic period.
(b) (i) Narrative evaluations of a student's academic performance subsequent to his or her admission, used in judging his or her progress through an academic program.
(ii) Basis for a student's admission such as the application for admission and supporting documents.
(iii) Results of petitions and appeals filed by a student.
(iv) Medical information relevant to a student's academic performance which has been furnished at the request or with the consent of the student concerned.
(v) Letters of reference which may or may not have been provided on the understanding that they shall be maintained in confidence.
(vi) Personal and biographical information such as address and telephone number.

The "official student academic record" shall be maintained by the University. For each type of information, academic divisions shall designate which document, form or medium contains the official version and how the academic division shall maintain such information will be identified.

4. 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 portions of the records filed in which communication letters of reference (Section 3(b)(iv)) from which may have been provided or obtained on the express understanding that they shall be maintained in confidence, a student may, however, be advised of the identity of the author 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 so long as the sources of such comments are identified and the official student academic record remains securely 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, 1977 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 Appeals to the Academic Appeal Board of the Governing Council), the party is entitled to be heard, prior to the hearing with "reasonable notice" of any allegations with respect thereto.
(b) Access by alumnus 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 from 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 divisional 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 requesting information must 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)(v) 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 assistant, of the patient's (physician, etc.) of such. The University's Health and Community Relations shall have access to appropriate personal information on students and alumni for the purpose of maintaining contact with them.
(d) Access by University campus organizations
Requests from campus organizations in the University or from official organizations of the University for that legitimate internal use of that organization. The "Student's Administrative Council, Graduate Students' Union, Part-time Undergraduate Students, and The Newspaper" shall be entitled to...
publish and distribute within the University community a University- wide directory of students (excluding undergraduate, graduate, full-time and part-time students) giving the surname, address and telephone number of students as long as there is a legitimate provision for students to decline in consent to the disclosure of that information. Names and addresses of students will also be provided to recognized campus organizations for the purpose of distributing information when all 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.
- The organization proposes to distribute information which, in the opinion of the Assistant Vice-President (Planning) and University Registrar, the University would wish 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 organization agrees to use the same and address information only for the specific purpose for which it was provided.

(e) Access by others
(i) By the act of registration, a student gives implicit consent for a minimal amount of information to be made freely available to all enquirers:
- the academic program(s) and the year(s) in which a student is or has been registered.
- degree(s) received and date(s) of convocation.
(ii) Any other information contained in the official student academic record (including any comments generated under section (b) but with the exception of the material specifically excluded under section 4(a)(ii)) shall be released to other persons and organizations only with the student's prior expressed written consent, or on the presentation of a court order, or in accordance with the requirements of professional bodies or licensing or certification bodies, or the Ministry of Colleges and Universities for an annual enrolment audit, or otherwise under compulsion of law. Requests granted to any university standards or agencies outside the University for access to a student's academic record shall be kept on file within a division. The release of the information concerning alumni and former students contained in the portions of the academic record as defined in Section 3(4)(c) shall also be governed by the above provisions. (iii) General statistical material drawn from academic records not disclosing the identities of students, alumni and former students may be released for research and informational purposes authorized by the University by the academic division maintaining these records.
(iv) In the event that a student, alumni or alumnus 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) Right 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 University's policy on Academic Sanctions for Students Who Fail to Meet Their Financial Obligations. The University may also refrain from releasing the official diploma to such persons nor provide written or oral certifications 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 maintaining official student academic records. The academic division maintaining official student academic records shall draw up plans for the eventual disposition of their records in consultation with the University Archivist and in accordance with the approved schedule which is in compliance with this policy.

(b) Those portions of the official student academic record as defined in Section 3(a) shall be maintained permanently. Each academic division's records schedule shall specify the document, 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 become open to 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. Square brackets [ ] indicate additional to the policy to clarify or interpret it applies specifically to the University of Toronto at Scarborough.

Purpose
The purpose of the University Grading Practices Policy is to ensure:
- that grading practices throughout the University reflect appropriate academic standards;
- that the evaluation of student performance is made in a fair and objective manner against these academic standards;
- 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 (noninal referred to as courses).

Amendment 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.

Distribution of Policy
A copy of the Grading Practices Policy as well as the description of the grading scales and the substance of divisional regulations indicated in Part II of this Policy shall be published in the Calendar of the division. Similarly a copy shall be given to all students upon initial registration and in all instructors and others, including teaching assistants, involved in the evaluation of student performance.

The Policy is in three parts: Part I deals with grades, Part II outlines grading procedures to be adhered to in divisional regulations adopted as part of this Policy, and Part III is an administrative appendix available upon request from the Office of the Vice-President and Provost.

PART I: Grades

Meaning of Grades
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 subject matter.

L1 A grade 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.

L1 Grades for each course shall be assigned with reference to the following means (which may be expanded in the divisional regulations under Part II):
- Excellent, Good, Average, Marginal, Inadequate.
Grade Scales

1.3 Once a judgment on the performance of the student has been reached, following grade scales are to be used:

(a) the refined letter grade scale: A+, A-, A, B+, B, B-, C+, C, C-, D+, D, D-
(b) the numerical scale of marks, consisting of all integers from 0 to 100
(c) for graduate divisions only, a truncated refined letter grade scale in which F7 replaces the C, D and F grades in (a) above
(d) the scales Honours/Pass/Fail and Credit/No Credit.

Grades vs. Scores

1.4 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.

Grade Reporting

1.5 Grades will be assigned according to the numerical scale of marks referred to in 1.3 (b) above, and converted to the refined letter grade scale of 1.3 (a) above. In graduate divisions, grades may be assigned according to the truncated refined letter grade scale if 1.3 (c) above. The HIPH and CRNCR scales of 1.3 (d) above may also be used. However, the grades assigned in a course must all be from the same scale.

1.6 All non-graduate designates used in reporting course results must correspond to the University-wide standard. A list of the currently approved designates and their meanings is given in the Appendix A.2.

1.7 The information in grade reports and transcripts must be communicated to the user, whether within or outside the University, in a clear and meaningful way. To that end, transcripts must include:

(i) an excitement history, which traces chronologically student's participation at the University,
(ii) a "grade point average" based on a 6-point scale for all undergraduate divisions (Note: grade point average values will be assigned as follows: A+/A = 4.0, A = 3.7, B+ = 3.3, B = 3.0, B- = 2.7, C+ = 2.3, C = 2.0, C- = 1.7, D+ = 1.3, D = 1.0, D- = 0.7, F = 0.0),
(iii) an average grade for each course expressed using the refined letter grade scale (Note: these calculations should be restricted to courses of a specific size),
(iv) both the numeric mark and its letter grade equivalent, where possible, for all courses,
(v) course weight values, expressed using a uniform system of values allowing for the relative values needed by each division,
(vi) transfer credits granted,
(vii) academic honors, scholarships and grants sanctioned by the University,
(viii) a comprehensive grade explaining all grades and symbols used on the transcript.

II.6 Graduation Procedures

Divisional Councils shall forward to the Committee on Academic Policy and Programs changes to their grading procedures. These changes may be adapted to divisional circumstances on the recommendations of the Committee on Academic Policy and Programs, but such procedures must be consistent with the principles in this policy.

Grades shall be recommended by the instructor to the chair or division head. Grades are due two working days after the final exam of any five working days after the deadline for submission of term work in courses where an exemption for the final examination requirement has been granted. The instructor shall make available to the student, and shall file with the division or department, the methods by which student performance was evaluated. This includes whether the methods of evaluation shall be exams, tests, examinations, etc., the relative weight of these methods on the overall score, and the timing of each major evaluation.

After the methods of evaluation have been made known, the instructor may not change them or their relative weight without the consent of at least a simple majority of the students enrolled in the course. Any changes shall be reported to the division or the department.

(a) Grades assigned to a student in a course shall not be altered on more than one occasion. No one paper, test, examination, etc. should have a value of more than 50% of the grade. Criteria for exemption may be determined by the division.

(b) It is the instructor's responsibility to assign grades as the course progresses. If a course meets regularly in a class there shall be an examination (or examinations) conducted formally under divisional auspices and worth (alone or in the aggregate) at least one-third of the final grade. Criteria for exemption may be determined by the division. The relative value of each part of an examination shall be indicated to the student. In the case of a written examination, the value shall be indicated on the examination paper.

(c) Commentary on assessed term work and time for discussion of it shall be made available to students.

(d) At least one piece of term work which is a part of the evaluation of a student's performance in any given course, lab report, review, etc., shall be returned to the student prior to the last date for withdrawal from the course without academic penalty.

(e) Grades shall be recommended by the instructor in reference to the approved grading scales on the basis of each student's performance.

In formulating their own regulations divisions may add to items (a) to (g) and may adopt fuller or more specific provisions, for example in place of such items as "a term paper" or "one-third of the final grade," or, in particular, in the case of the methods referred to in (a) and (b).
II.3 Procedures in the Event of Disruptions

Principles
The following principles shall apply in the event of disruption of the academic program:

(i) The academic integrity of academic programs must be honored; and
(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 Program regarding the implementation of the procedures and changes to the status of the academic program.

(b) Individual instructors or 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 in the regular procedures are taken. Changes agreed upon by consensus should be forwarded to the department or division with a report of the attendance at the class when the vote was taken.

(d) Where consensus on changes has not been arrived at, or where a vote is not feasible, the instructor, after the class discussion, will provide the division head or chair of the department in respect of the affected departmental faculty, with his or her decision in the event of a disagreement on the results of any classroom vote. The chair or division head shall then make a decision.

(e) Where classes are not able to convene, the instructor, with the prior approval of the chair in multi-departmental sessions or division head, shall 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.

(f) 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.

(g) 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 of classes, withdraw without academic penalty. Such students shall receive a full refund of the course registration fee.

(h) Where students have not attended the classes that were missed due to the meeting, they nonetheless 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 provided should be provided.

(i) A student who considers that a disruption has unreasonably affected his or her grade in a course may appeal the grade following the procedures as set out in each division. If the petition is approved, the student's original grade will be replaced by either an assessed grade or by a grade of CRF/NC, as deemed appropriate in the particular circumstances.

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's performance 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 or field experience;

(b) A mid-year 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 specific assessment procedures to be applied in any particular field or clinical setting.

(e) 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 following process 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 allowed as an assessed grade or by a grade of CRF/NC, as deemed appropriate in the particular circumstances.

(b) However, a division may provide broad guidelines on grading or setting out a reasonable distribution of grades in the division or department. Such broad limits shall recognize that considerable variance in class grades is not unusual. 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 scala 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 criterion that the Divisional Review Committee shall employ in its evaluation is 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 unfair to the standard of the University, or the class in general.

(d) Membership on the Divisional Review Committee may include students but should not include members of the divisional administrative staff.

(e) Where grades have been adjusted by the divisional committee, the students as well as the instructor shall be informed. On request, the students or the instructor shall be given the reason for the adjustment of grades, a description of the methodology used to adjust the grade, and a description of the divisional appeal process.

(f) Where the appeal coordinator of the divisional review committee changes course coordinators, the faculty office shall be so informed. Having done so, the faculty office shall relay this information, upon request, to the student and/or the instructor with a description as to the reasons for the change and the methodology used.
Examinations

Examinations are held at the end of both the Summer and Winter Sessions. Students who make personal commitments during the examination period do so at their own risk. No special consideration will be given and no special arrangements made in the event of personal commitments. Information regarding dates and times of examinations will not be given by telephone.

Students are responsible for reading the timetable carefully and appearing at the time specified. Students taking courses during the day may be required to write evening examinations and students taking evening courses may be required to write day examinations. Students may also be required to write Saturday term tests or examinations.

Examination timetable conflicts

Students scheduled to write two examinations at the same time should report their conflict to the Assistant Registrar (Scheduling) (Room S416A, 416-287-7150). Arrangements will normally be made for students to write both examinations on the same day, with a supervised break. Where the conflict involves a St. George Campus course, arrangements will normally be made for both examinations to be written at University of Toronto at Scadding. Requests for such arrangements must be made at least one week before the commencement of examinations and well in advance of 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 examinations must be made with the Assistant Registrar (Scheduling) no later than two weeks before the commencement of examinations. Requests will not be considered after that time.

Accommodation for Religious Observances

The University has adopted a policy concerning accommodation for religious observances as they relate to the scheduling of examinations.

timetables are prepared with the observances of the major Christian denominations and the Jewish observances of Rosh Hashanah, Yom Kippur and Passover in mind. Nevertheless, examination timetables may conflict with the religious observances of some students. A student for whom a religious observance makes it impossible for him/her to be present for an examination should bring this fact to the Office of the Associate Dean (S414A) immediately. The Associate Dean will make appropriate arrangements for re-scheduling the examination as necessary.

Special consideration regarding examinations

Students requesting special consideration because they are unable to write a final examination must submit a petition through the Registrar’s Office 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 237).

Identification cards - Tokens

Students will be required to identify themselves at examinations by means of their University of Toronto photo identification card (Token). Students who do not have this card should arrange to obtain one well 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 Behaviour on Academic Matters.
2. Students must be in their examination room at least fifteen minutes before the scheduled time. Instructors will begin the actual examination at the scheduled time.
3. No requests will be allowed in an examination room during an examination.
4. Students are not allowed to leave the examination room without permission. Students who leave the room for any reason will lose all marks for that examination and those supervising it.
5. Students bringing their photo identification cards (Token) and place them in a conspicuous place on their desks. (Students registered in other Faculties or Colleges of the University shall bring their student cards.)
6. Bags and books are to be deposited in areas designated by the invigilator and are not to be taken to the examination desk or tables. Students may dispose of their meals by placing them, closed, on the invigilator’s desk.
7. No materials shall be brought into the examination room or used as such, with the exception of those authorized by the Chief Presiding Officer or as otherwise permitted in the examination room.
8. Candidates shall not communicate with one another in any manner whatever while the examinations are proceeding.
9. 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 permission to write the remaining part of the examination or any subsequent examinations. Such candidates are also liable to the loss of academic credit for the course, to suspension, or to expulsion from the University.
10. Candidates shall not be permitted to leave the examination room except under supervision until at least half an hour after the examination has commenced.
11. Candidates shall not leave the examination room within the first ten minutes of an examination, during which time they shall remain quietly seated at their desks.
12. At the conclusion of an examination all writing within the answer books shall cease. The invigilator may refuse to accept the answers of candidates who fail to observe this requirement.
13. Examination books and other material issued for the examination shall not be removed from the examination room without the authority of the invigilator.

Special consideration, petitions and appeals

From time to time students may need to apply for special consideration in their academic work or for exceptions to be made to the academic regulations. In many cases, normally arise as a result of their being affected by circumstances outside their control, such as illness, accident or the death of a family member. Very occasionally students may find themselves in a situation not foreseen by the College regulations or feel that they have been unnecessarily affected by a decision from the University Policy or approved practice. If you find yourself in such a situation, it is important that you follow the appropriate procedures and meet any published deadlines.
A non-refundable fee of $30.00 for each examination to be written at an outside centre is charged in addition to the regular deferred examination fee of $70.00. Students who are given permission to write at an outside centre are also responsible for all costs of travel, travel insurance, and other related expenses. Students may exceed $100.00 per examination. Students are advised to assess the total costs before petitioning.

C. Marks and Grades

1. Checking Marks: Term Work
   If you think that your mark on a term test or assignment has been calculated incorrectly, ask your instructor to check the mark. Do this as soon as possible, and certainly before the end of the term. If you wish to appeal an instructor's decision about the grading of term work, speak with or write to the Chair of the Division offering the course.

2. Copies of final examinations
   Within ninety days of the relevant examination period you may obtain a photocopy of your final exam from the Registrar's Office. After that date, examinations are destroyed. A non-refundable fee of $2.00 is charged.

3. Clerical Check of Marks: Final Examinations
   If you think there is an error in the calculation of your final grade, within ninety days of the relevant examination period you may request a check of the calculation through the Registrar's Office on a form provided for this purpose. (It is not necessary to purchase a copy of your exam to make the request.) A fee of $2.00 is charged. If an error is discovered which results in a change of the final letter grade, your fee will be refunded. Whenever a grade is changed, the amended grade will stand whether it is higher or lower. Please note that before submitting any failing grades, instructors are required to re-read the final exam and recheck the calculation of term and final marks.

4. Appealing Assigned Grades
   If you wish to appeal a mark that you received for re-reading (See D. Below) You must do so within thirty days of the relevant examination period.

5. Violations of the Grading Practices Policy
   (a) If you think an instructor has violated the Grading Practices Policy, discuss your complaint with the instructor. If the violation relates to the announced schedule of assignments or the marking scheme, you must do so no later than the fourth week of classes. If it relates to changes in or divergence from the announced marking scheme, you must do this before the end of the final examination period.
   (b) If this discussion does not result in a satisfactory resolution, you may appeal the instructor's decision to the Chair of the Division offering the course. If this appeal does not resolve the problem, you may appeal to the Principal of the College.
   (c) If you wish to withdraw from a course after the last day to withdraw without academic penalty, on the grounds of a violation of the Grading Practices Policy, you must submit a formal petition (See D. Below). If your petition is granted, it is a Violation of the Policy has occurred, no record of your registration in the course will appear on your transcript.

D. Petitions
   A petition is a formal request that an exception to an academic regulation be made in your case. You have good reason to make such a request, and you must show that you have
acted responsibly and with good judgment in observing the academic regulations to the extent possible. Please note that some academic matters cannot be petitioned, although sometimes these may be resolved with an instructor or a Division offering a course.

1. To enter a petition you must obtain from the Registrar's Office a petition form. Follow the instructions on the form and fill it out completely, including the Petitioner's Checklist. The petition form may also be downloaded from the Registrar's Office website.

2. If you think the issue is simple and the solution straightforward, you may not need advice or assistance with your petition. However, if there are more complex academic issues involved you may wish to seek first with your instructor, program supervisor or discipline representative. If serious personal problems are involved, you should try to meet with an academic advisor in the Academic Career and Learning Skills Resource Centre or a personal counsellor in the Health and Wellness Centre. Do not let your recommendation interfere with your submitting your petition by the deadline.

3. Submit whatever documentation is necessary to support your request. (a) Medical certificates must show:
   - the nature and extent of the problem
   - the nature and extent of the problem
   - the degree of disability involved
   - the duration of the disability
   - the practitioner's professional opinion as to whether you should receive special consideration on medical grounds.

4. If your petition is granted, the following will be recorded on your transcript:
   - withdrawal from courses after the published deadline (WDR)
   - deferral of suspension (suspended on deferral)
   - a special note or special mark on the transcript
   - a special note or special mark on the transcript
   - a special note or special mark on the transcript
   - a special note or special mark on the transcript

5. In cases of error on the part of the University, including violations of the Code of Fairness, the following will be recorded on the transcript:
   - withdrawal from courses without academic penalty
   - withdrawal from courses without academic penalty
   - withdrawal from courses without academic penalty
   - withdrawal from courses without academic penalty
   - withdrawal from courses without academic penalty

6. Deadlines
   - The deadlines below apply to the University of Toronto at Scarborough.
   - Deadlines and policies for courses taken on other campuses may differ:
   - see the appropriate Faculty Calendar.

1. Term Work
   - requests for special consideration on term assignments and term tests within the jurisdiction of the instructor: last day of class
   - petitions to submit term assignments or take write-up term tests after the last day to submit term work (see the Calendar): last day of the examination period

2. Final Examinations
   - Summer and Fall & Winter Sessions
     - petitions to write deferring examinations: last day of the examination period

   - Summer Session
     - petitions to rewrite final examinations in May-June courses: July 31
     - petitions to rewrite final examinations in May-August and July-August courses: September 30

   - Fall & Winter Sessions
     - petitions to rewrite final examinations in September-December courses:
       - January 31
     - petitions to rewrite final examinations in September-May and January-May courses:
       - June 30

3. Missed Deferral Examinations
   - petitions to write a deferred examination which has been missed:
     - last day of the relevant examination period

4. Errors in Course Registration or Withdrawal From Courses
   - requests for errors in course registration or to withdraw from courses without academic penalty after the published deadline should be submitted as early as possible but not later than: June 30 (Fall & Winter Session courses); September 30 (Summer Session courses)

5. Checking of Marks and Appeal of Grades
   - requests for checking of marks on term tests, essays and other term work made to the instructor of a course: last day of class
   - petitions for reconsideration of term work returned to you after the end of term: ninety days after the relevant examination period
   - requests for a photocopy of a final examination: ninety days after the relevant examination period
   - requests for the re-marking of marks
   - petitions for re-readings of final examination: ninety days after the relevant examination period
B. Offences

The University and its members have a responsibility to ensure that a climate which might enable, condone or justify conditions which might enable, cheating, misrepresentation or unfairness not be tolerated. To this end all must acknowledge that seeking credit or other advantages by fraud or misrepresentation, or seeking to disadvantage others by disruptive behavior is unacceptable, as is any dishonesty or unfairness in dealing with the work or record of a student. Wherever in this Code an offence is described as depending on “knowing”, the offence shall likewise be deemed to have been committed if the person might reasonably have to known.

B.I. It shall be an offence for a student knowing:

(a) to forge or in any other way alter or falsify any document or evidence required by 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 assist or obtain unauthorized assistance in any academic examination or test or in connection with any other form of academic work;

(c) to persuade another person, or to have another person, at any academic examination or test or in connection with any other form of academic work;

(d) to represent as one’s own any idea or expression of an idea of work of another in any academic examination or 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 (13) meaning in English: “the wrongful appropriation and purloining, 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 studio and seminar room, 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 at itself, and hence of the academic experience. Instructors should make clear what constitutes plagiarism within a particular discipline.

(e) to submit, without the knowledge and approval of the instructor to whom it is submitted, any academic work for which credit has previously been obtained or is being sought in another course or Program of study in the University or elsewhere;

(f) to submit any academic work containing a purported statement of fact or reference to a source which has been concocted.

2. It shall be an offence for a faculty member knowing:

(a) to approve of any of the previously described offences;

(b) to evaluate an application for admission or transfer to a course or program of study by reference to any criteria that is not academically justified.

(c) to evaluate academic work by a student by reference to any criteria that does not relate to its merit, to 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, knowingly:

(a) to forge or in any other way alter or falsify any academic grades, or to assist, circulate or make use of any such forged, altered or falsified record, whether the record be in print or electronic form;

(b) to engage in any form of cheating, academic dishonesty or misconduct, fraud or misrepresentation not herein otherwise described, in order to obtain academic credit or other academic advantage.

4. A graduate of the University may be charged with any of the above offences committed knowingly while he or she was an active student, unless, in the opinion of the Provost, the offence, if detected, would have resulted in a sanction sufficiently severe that the degree would not have been granted at the time that it was.

B. II. Parties to Offences

1. (a) Every member in a party to an offence under this Code who knowingly:

(i) actually commits it;

(ii) does or omits to do anything for the purpose of aiding or 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 and another member to commit or be a party to an offence; or

(v) abets, counsels, procures or compels any other 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.

2. Every member who, having an intent to commit an offence under this Code, chooses not to do anything for the purpose of carrying out that intention (whether or not he is making preparation to commit the offence) is guilty of an attempt to commit the offence and liable under conviction to the same sanctions as if he or she had committed the offence.

3. When a group is found guilty of an offence under this Code, every officer, director, authorized or participated in the commission of the offence as a party and guilty of the offence and 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, the procedures for handling charges of academic offenses involving students reflect the gravity with which the University views such offenses. 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.

C.1(a) Divisional Procedures

NOTE: Where a student commits an offence, the faculty in which the student is registered has responsibility over the student in the matter. In the case of Scarborough and laminate colleges, the colleges is deemed to be the faculty.

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 such discussions, meetings and determinations are not proceedings of the Tribunal.

2. Where an instructor has reasonable grounds to believe that an academic offense 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 discuss the matter. Nothing the student says in such a discussion may be used or admitted in evidence against the student.

3. If after such discussion, the instructor is satisfied that no academic offense has been committed, no further action need be taken. The instructor shall inform the student of the instructor’s conclusion. If after such discussion, the instructor does not consider it appropriate to take no action, the instructor shall inform the student of the instructor’s conclusion and the student shall be permitted to present written evidence to the Divisional Tribunal.

4. If, after such discussion, the instructor believes that an academic offense 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 or through the department chair to the dean or Associate Dean. See also Section C.1 (b) 1.

5. When the dean (Associate Dean) or the department chair, as the case may be, has been so informed, 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 (Associate Dean) being informed, the chair of the department and the instructor shall be invited by the dean (Associate Dean) to be present at the meeting with the student. The dean (Associate Dean) shall conduct the interview.

6. Before proceeding with the meeting, the dean (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 entitled to make, any statement or admission, but shall warn that if he or she makes any statement or admission in the meeting, it may be used or received in evidence against the student in the hearing of any charge with respect to the alleged offense in question. The dean (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 (Associate Dean) is not obligated to impose a sanction but may instead request that the Provost lay a charge against the student. Where such advice and warnings are not given, the statements and admissions, if any, made at such a meeting may be used or received in evidence against the student in any such hearing.

7. If the dean (Associate Dean), on the advice of the department chair and the instructor, or if the department chair, on the advice of the instructor, subsequently decides that no academic offense has been committed and that no further action is required, the student shall be so informed in writing and the student’s work shall be returned for normal evaluation. If, or if the student was prevented from withdrawing from the course by the withdrawn date, he or she shall be allowed to withdraw. However, the matter shall not be introduced into evidence at a Tribunal hearing for another offense.

8. If the student admits the alleged offense, the dean (Associate Dean) or the department chair, as the case may be, has been so informed, 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 (Associate Dean) being informed, the chair of the department and the instructor shall be invited by the dean (Associate Dean) to be present at the meeting with the student. The dean (Associate Dean) shall conduct the interview.

9. If the student is dissatisfied with a sanction imposed by the department chair or the dean (Associate Dean), as the case may be, the student may refer the matter to the dean (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 (Associate Dean) if the dean (Associate Dean) imposes a sanction.

10. If the student does not admit the alleged offense, the dean (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 defect or irregularity in such procedures, shall not invalidate any subsequent action taken by the Tribunal; however, the chair may not impose a sanction unless the defect or irregularity resulted in a substantial wrong, determined prejudicial to the accused. The chair may determine at the opening of the hearing whether there is to be any objection to an alleged defect, failure or irregularity.

12. No degree, diploma or certificate of the University shall be conferred or awarded, nor shall any student be allowed to withdraw from a course from the time of the alleged offense 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 (Associate Dean) to bar him or her from a facility. When or at any time after an accusation has been reported to the dean (Associate Dean), he or she may cause a notation to be recorded on the student’s academic record and transcript, until the final disposition of the accusation, to indicate that the student is in violation of the student’s academic status is under review. A student upon whom a sanction has been imposed by the dean (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 Section C.1 (a) and of the sanctions imposed shall be kept in the academic unit concerned and may be referred to by the dean (Associate Dean) in connection with a decision in prosecution, or by the prosecution in making representations as to the sanction or sanctions to be imposed by the Tribunal. Information on any such cases shall be available to other academic units upon request, and such cases shall be reported by the dean (Associate Dean) to the Secretary of the Tribunal for use in the Provost’s annual report to the Academic Board. The dean (Associate Dean) may contact the Secretary of the Tribunal for advice or information on cases disposed of under this Section.

14. When a proctor or investigator, who is not a faculty member, has reason to believe that an academic offense has been committed by a student at an examination or test, the proctor or investigator shall so inform the student’s dean (Associate Dean) or department chair, as the case may be, who shall proceed as if he or she were an instructor, by analogy to the other provisions of this section.

15. In the case of alleged offenses not covered by the procedures and policies and not involving the submission of academic work, such as those concerning forgery or uttering, and in cases involving cancellation, refusal or suspension of the degree, diploma or certificate, the procedure shall be determined by the provost, or by agreement with the other set out in this section.
C.A.B. (b) Divisional Sanctions
1. In an assignment worth 10 percent or less of the final grade, the department chair shall deal with the matter if:
(i) the student admits guilt; and
(ii) the assignment of a penalty is limited to at most a mark of zero for the piece of work.
If the student does not admit guilt, or if the department chair chooses, the matter shall be brought before the dean [Associate Dean].

2. One or more of the following sanctions may be imposed by the dean [Associate Dean] where a student admits to the commission of an alleged offence:
(a) an oral and/or written reprimand;
(b) an oral and/or written reprimand and, with the permission of the instructor, the re-submission of the piece of academic work, in respect of which the offence was committed, for evaluation.

C.A.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) an oral and/or written reprimand;
(b) an oral and/or written reprimand and, with the permission of the instructor, the re-submission 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 grade of zero or failure for the piece of academic work in respect of which the offence was committed;
(e) 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;
(f) denial of privileges to use any facility of the University, including library and computer facilities;
(g) a monetary fine to cover the costs of replacing damaged and/or damaged property or equipment, or the costs of replacing damaged and/or damaged supplies in respect of which the offence was committed;
(h) assignment of a grade of zero or failure for the piece of academic work in respect of which the offence was committed;
(i) 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 the course or courses without academic penalty shall be allowed.

3. The dean [Associate 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 deems appropriate. However, the sanctions of suspension or a certificate of academic misconduct are 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".

Code of Student Conduct
Subject to Governing Council approval, this Code of Student Conduct will come into effect on July 1, 2002.

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. Student members of the University are adherent 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 offenses 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 takes the position that students have an obligation to make legal and responsible decisions concerning their conduct as, or if they were, adults. The University has the general responsibility for the moral and social behaviour of its students. In the exercise of its disciplinary authority and responsibilities, the University treats students as free to organize their own academic and social behavior and associations subject to the provisions of University regulations that are necessary to protect the integrity
and safety of University activities, the peaceful and safe enjoyment of University housing by residents and neighbors, or the freedom of members of the University to participate reasonably in the programs of the University and its activities in or on the University property. The regulation of such activities by the University of Toronto is otherwise neither necessary nor appropriate.

Under some circumstances, such as when a student has not yet reached the legal age of majority, additional limitations on student conduct may apply.

5. University members are not, as such, immune from the criminal and civil laws of the wider political units to which they belong. Provisions for non-academic discipline should not attempt to shelter students from their civic responsibilities nor add unnecessarily to those 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 behavior 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, where such conduct is not, for the University’s defined purposes, adequately regulated by the criminal law.

7. Nothing in this Code shall be construed to prohibit peaceful assemblies and demonstrations, lawful picketing, or to inhibit freedom of speech, the press, and of association.

8. In this Code, the word "premises" includes lands, buildings and grounds.

9. In this Code, "student" means any person.

(i) engaged in any academic work which leads to the obtaining and/or issue of a mark, grade or statement of performance by the appropriate authority in the University or another institution, and/or

(ii) associated with or registered as a participant in any course or program of study offered by or through a college, faculty, school, centre, institute or other academic unit or division of the University, and/or

(iii) entitled to a valid student card who is between sessions but is entitled because of student status to use University facilities, and/or

(iv) who is a post-doctoral fellow.

10. In this Code, the word "University of Toronto" refers to the University of Toronto and include any institutions federated or affiliated with it, where each institution 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.

Note: The University of Toronto has agreed that, when the premises, facilities, equipment, services and activities of the University of Toronto are referred to in this Code the premises, facilities, equipment, services and activities of the University of St. Michael’s College Trinity College and Victoria University shall be included.

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, unless the matter has been or is to be dealt with under other provisions for the discipline of students. In the case of the other members of the University, such conduct is to be dealt with in accordance with the established policy, procedures and arrangements that apply to the members.

Subject to the conditions and considerations outlined in Section B, this Code is concerned with conduct arising in relation to a wide variety of activities and behaviours including, but not limited to, conduct related to the use of computers and other information technology and the use or misuse of alcohol. In principle, alleged offences that arise in relation to such conduct are not distinct from those that arise out of other activities that occur in the University community. Such activities may also be considered the commission of one or more offences and, in appropriate circumstances, may be dealt with under other University policies or regulations specific to the behaviour.

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 with bodily harm, 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.

(e) No person shall engage in a course of vexatious conduct that is directed at one or more specific individuals, and that is designed to cause anxiety, place of origin, colour, religion, origin, citizenship, sex, sexual orientation, creed, age, marital status, handicap, receipt of public assistance, or other offences of that individual or those individuals, and that is known to be vexatious and that exceeds the bounds of freedom of expression or academic freedom as these are understood in University policies and in academic and practice, including but not limited to those explicitly adopted.

Note: The term sections to be understood as they are defined in the Ontario Human Rights Code.

Vexatious conduct that is
based on sex or sexual orientation is considered an offense under the University’s Policy. If the Sexual Harassment Officer believes, after consultation with relevant parties, that a complaint based on sex or sexual orientation would be better handled under the Code of Student Conduct, the Officer may refer the matter to the appropriate head of division.

2. Disruption
No person shall cause by action, threat or otherwise, a disturbance that the member knows obstructs any activity sponsored by the University or any of its divisions, or the right of another member or members to carry on their legitimate activities, to speak or to associate with others.
For example, peaceful picketing or other activity outside a class or meeting that does not substantially interfere with the communication, inside, or impede access to the meeting, is an acceptable expression of dissent. And silent or symbolic protest is not to be considered disruption under this Code. But note that obstructs the conduct of a meeting or reasonable blocking of access to an activity constitutes disruption.

3. Offences Involving Property
(a) No person shall knowingly take, destroy, or damage property 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 divisions.
(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 effects or 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 any of its members.

4. Unauthorized Entry or Presence
No person shall, contrary to the express instruction of a person or persons authorized to give such instruction, or with intent to 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 gain 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.
(c) No person shall knowingly mutilate, misplace, misuse, or render inoperable any system information such as books, film, data files or programs from a library, computer or other internal databases, storage, processing or retrieval systems.

6. False charges
No person shall knowingly or maliciously make a false charge against any member of the University of Toronto.

7. Adding in the Commission of an Offence
No person shall counsel, procure, conspire with or aid a person in the commission of an offense defined in this Code.

8. Refusal to Comply with Sanctions
No person found to have committed an offense under this Code shall refuse to comply with a sanction or sanctions imposed under the procedures of this Code.

9. Unauthorized Possession or Use of Firearms or Ammunition
No person other than a peace officer or a member of the Canadian Forces acting in the course of duty shall possess or use any firearm or any ammunition on the premises of the University of Toronto without the permission of the officer of the University having authority to grant such permission.

C. Procedures
1. General
(a) The University shall establish a centrally appointed pool of trained Investigating and Hearing Officers, who shall be available to the divisions, at the discretion of the head of the division, if that head considers appropriate or preferable.
(b) Each division shall appoint an Investigating Officer and a Hearing Officer, who may be staff or faculty members from that division.
(c) Where the incident is investigated locally or centrally, every effort shall be made to conclude the case through delivery of a final decision within the University within one year from the alleged incident of misconduct.
(d) Pursuant to the provisions of Section D, interim conditions may be imposed by the head of the division.
2. Specific

(a) An Investigating Officer shall be appointed for a term of up to three years by the principal, dean or director (hereinafter called "head") of each faculty, college or school in which students are registered (hereinafter called "division"). The investigator shall be appointed by the Faculty or School to conduct investigations into complaints made against student members of that division. The Investigating Officers shall hold office until their successors are appointed.

(b) A Hearing Officer shall be appointed for a term of up to three years by the council of each division to conduct hearings concerning complaints made under this Code against student members of that division. Hearing Officers shall hold office until their successors are appointed.

(c) If the Investigating Officer is unable to conduct an investigation, or the Hearing Officer is unable to conduct hearings, or where the head of the division believes on reasonable grounds that the appointed officer is inappropriate in connection with the appointment, the Faculty Council or a special committee thereof shall appoint another investigator, or hearing officer, as the case may be, to conduct the investigation or hearing.

(d) The hearing shall be conducted by the Hearing Officer. The Hearing Officer shall have the power to compel the attendance of witnesses and to require the production of documents and evidence. The Hearing Officer shall have the power to punish for contempt of court.

2. Interim Conditions and Measures

1. Interim Conditions: Ongoing Personal Safety

In those cases where the allegations of behaviour are serious and, if proven, could constitute a significant personal safety threat to other students or members of the University community, the head of the division is authorized to impose interim conditions that balance the need to protect students with the requirement of fairness to the respondent student. The interim conditions are to be imposed in a way that is reasonable and proportionate to the threat.

2. Interim Measures: Urgent Situations

In some circumstances, such as involving serious threats of violent behaviour, it may be necessary to remove a student from the University. The decision to remove a student from the University shall be made by the council of the division.

3. Appeal Against the Decision

Appeals against decisions of the division shall be made in writing to the Council of the University. The Council of the University shall review the decision of the division and make a decision on the appeal.

4. Security of the University

The University shall take all reasonable steps to ensure the security of its premises.

5. Exclusion from the University

Students who violate the Code of Student Conduct may be excluded from the University.

6. Relocation

The University may require a student to relocate to a different residence or to a different campus.

7. Suspension

The University may suspend a student from its programs for a specified period of time.

8. Expulsion

The University may expel a student from its programs.

9. Disciplinary Action

The University may take disciplinary action against a student for violation of the Code of Student Conduct.

10. The Appeal Process

Students who are dissatisfied with the decision of the university may appeal the decision to a higher authority.
on a student, the Vice-President & Provost (or delegate) shall have the power to record the suspension or disqualification in the student’s academic record and transcript for such length of time as he or she considers appropriate.

A sanction of suspension shall be recorded on the student’s academic record and transcript for a period of five years. The following wording shall be used: “Suspended from the University of Toronto for reasons of non-academic misconduct for a period of [length of suspension], [date].” A sanction of expulsion shall be permanently recorded on the student’s academic record and transcript. The following wording shall be used: “Expelled from the University of Toronto for reasons of non-academic misconduct, [date].”

6. Suspension from registration in any course or program of a division or any divisions for a period of up to one year.

7. Recommendation for expulsion from the University.

Memorandum on the Maintenance and Use of the Records of Non-Academic Discipline Proceedings

1. Keeping of Records

Records must be kept in all cases that have been the subject of an investigation and have resulted in the imposition of a sanction, whether or not the student has waived the right to a hearing. A Record of the Proceedings of Non-Academic Discipline Hearings must be kept in all cases that have proceeded to a Hearing.

2. Composition of Record

The Record of the Proceedings on Non-Academic Discipline cases shall consist of:
(a) the written report of the investigating Officers, if any;
(b) the Notice of Hearing (including the offense charged);
(c) documentary evidence filed at a Hearing;
(d) the decision of the Hearing Officer and the reasons therefor.

3. Storage of Records

The Record of the Proceedings of Non-Academic Discipline Hearings shall be stored in the office of the head of the division.

4. Records of the Investigating Officer

Where the investigation has not proceeded to a Hearing, the records and notes of the Investigating Officer shall be kept and may have a hearing on the decision to prosecute in a future case. Where a sanction has been imposed, a copy of the letter of sanction to the student shall be filed, in confidence, with the Judicial Affairs Officer, Office of the Governing Council.

5. Publishing of Records

Decisions of the Hearing Officer, including the name of the Respondent, the offense and the sanction, shall be reported to the Vice-President & Provost, who shall convey the information, anonymously and in statistical form, annually to the University Affairs Board. A Hearing Officer or the Discipline Appeals Board may recommend to the Vice-President & Provost that the names of the offense and the sanction be published in the University newspapers. Where circumstances warrant, they may also order the publication of the name of the person found to have committed the offense. The Vice-President & Provost shall have the discretion to withhold publications of the name of the person.

6. Use of Records

Records relating to previous convictions may be taken into account in imposing a sanction.

7. Tape Recordings of Hearings

The Hearing Officer shall ensure that a tape recording is made of all sessions of a Hearing. Such tape recordings shall be kept by the head of the division for at least 90 days after notice has been given of the decision of the hearing.

Memorandum of Procedures for Hearings Arising from the Code of Student Conduct

1. Complainant about the alleged commission of any offense under the Code of Student Conduct may be represented by any person ("the complainant") to the principal, dean or director ("the head") of the college, faculty or school ("the division") in which the student or students who are alleged to have committed the offense ("the accused") are enrolled.

2. The head of the division shall consider the written complaint and shall determine if the conduct complained of appears to fall under the Code of Student Conduct. If it does not appear to fall under the Code of Student Conduct, the head may take whatever other action he or she deems appropriate to the circumstances, including communication to the complainant of the conclusion be or she has drawn. Where a student's conduct comes to light after a student has left the University, the head of the division may decide to proceed, if the seriousness of the allegations warrants such action.

3. If the head of the division considers that the conduct complained of appears to fall under the Code of Student Conduct, he may request the Investigating Officer to conduct a discreet investigation of the case and to make a report to him or her.

4. If, on the basis of the report of the Investigating Officer, the head of the division concludes that the accused may have committed an offense under the Code of Student Conduct, he or she shall have the discretion to request that a hearing take place to determine whether the accused has committed the offense alleged.

5. To initiate a hearing, the head of the division shall give written notice to the accused indicating the nature of the complaint, the offense alleged and setting a date, time and place for a hearing to provide an opportunity for the accused to respond to the allegations made. The notice shall indicate that the hearing does not end with the hearing, the hearing may proceed in the absence of the accused.

6. The hearing will be chaired by the Hearing Officer, who shall not have been involved in the investigation leading up to the decision to request a hearing, and who shall make the decision on the basis of evidence presented at the hearing.

7. Hearings shall be conducted in an informal manner, in accordance with the principles of natural justice, and the Hearing Officer shall be bound to observe strict legal procedures. Procedural defects will not invalidate the proceedings unless there has been a substantial wrong or denial of natural justice.

8. The parties to the hearing are the hearing officer, represented by the Investigating Officer, who may be assisted and represented by legal counsel, and the accused, who may be assisted and represented by another person, who may be a lawyer. Both parties shall be allowed to call, examine and cross-examine witnesses and present evidence and argument.

9. Hearings shall be open to members of the University unless the Hearing Officer decides there is sufficient cause to provide otherwise.

10. The Hearing Officer is not bound to conduct the hearing according to strict rules of evidence. Evidence may be received in written or oral form.

11. The Hearing Officer may take note of matters generally within the knowledge of members of the University community.

12. The accused may waive the right to a hearing under these procedures, in which case the Hearing Officer will note on whether the accused has committed the offense alleged and impose one or more of the sanctions listed in the Code of Student Conduct.

13. After a hearing, the Hearing Officer will file the complaint and, where the Hearing Officer finds that the accused has committed an offense, shall impose one or more of the sanctions listed in the Code of Student Conduct and give reasons for the decision. A copy of the letter to the student imposing the sanction and the reason will be, in confidence, to the Judicial Affairs Officer, Office of the Governing Council.

14. The basis of proof is on the head of the division, and the Hearing Officer will be shown on clear and convincing evidence that the accused has committed the offense alleged.

15. Any person or body shall be stayed pending the outcome of any appeals to the Discipline Appeals Board.
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