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

Stephen Leacock

1995/96

1 Place.

1265 Military Trail, Scarborough, Ontario, Canada, M1C 1A4
University will assume that he or she has done so. The rules and regulations of the Faculty (School, College) are displayed here. Applicable University policies are either fully displayed here or listed here.

In applying to the Faculty (School, College) the student assumes certain responsibilities to the University and the Faculty (School, College) and, if admitted and registered, shall be subject to the rules, regulations, and policies cited in the Calendar.

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

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

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

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

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

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

10 ACADEMIC OFFENCES ARE A SERIOUS MATTER. See page 243.

11 Scarborough College has a fire safety plan. Copies are available from Physical Plant Services (X303).

12 Scarborough College has a No-Smoking Policy.

The Campus Maps were drawn by Amez Mathew, a third year student in Geography.
Scarbtorough College: Past and Present

Scarbtorough College, a constituent college of the University of Toronto, was established in 1964. Since that time it has grown from a modest beginning of see evening courses in a local high school to a thriving campus where over 200 faculty teach more than 700 courses to 5,500 students.

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

1973 saw the opening of the R-wing (with classrooms, office space, a gymnasium, and other sports facilities) and the Student Village, a complex of townhouse residences with room for 250 students. In 1985 the original Student Village was expanded and in 1990 the West Village opened, creating a second residential area on the campus with some wheelchair-accessible houses. A total of 516 students can now be accommodated in residence.

In 1990, the Vincent W. Bladen Library, named in memory of a former member of the Economics faculty of Scraborough College, was added to the R-wing. The library has more than 200,000 books and periodicals, thousands of maps, and a media centre with recordings and films on slides. Bladen Library, in conjunction with the College's Computer Centre, has also become one of the leaders in the University of Toronto as the use of electronic resources.


Originally an integral part of the University's Faculty of Arts and Science, in 1972 Scraborough College became a separate arts and science division of the University of Toronto and assumed more independence in curriculum development. It was the first college in the University to adopt a credit system allowing both full and part-time students to complete their degrees at a rate of their own choosing. The College offers the only formal co-operative programme in the University. The programmes in Administration, Computer Science, and International Development Studies. In addition, both the Physical Sciences Specialist programmes and the Education of Teachers in French Specialist Programme offer an Early Teacher Project component, in cooperation with the Faculty of Education. Successful completion of the Early Teacher Project together with the required academic standing will guarantee admission to the teaching profession, for at least ten years of age.

Other special programmes include Cell and Molecular Biology, Neuroscience, Environmental Earth Science, the Humanities, and Women's Studies.

Scarbttorough faculty also make an important contribution to the School of Graduate Studies, teaching graduate courses and training graduate students both here and on the St. George campus. Many faculty have received world-wide recognition for their research and scholarship. The well-appointed research laboratories, the high level of technical services, the relatively small size of the College and the diversity of the faculty foster an ideal environment for intellectual exchange and development.

Scarbttorough students have full and up-to-date resources available on campus; as full members of the University of Toronto, they also have access to the resources of the University as a whole. On the Scraborough Campus, regular events include concerts, drama productions, and a library lending series. The Snider series and the prestigious Watts lectures have brought such distinguished speakers as Nobel Prize winner and former Prime Minister Lester Pearson, architect Raymond Moriyama, philosopher and theologian Hans Küng, and television personality David Suzuki, union leader Bob White, Assembly of First Nations chief Georges网点, and Israeli's Ambassador to Canada Zdbek Shalev, co-hosting with Abdallah Abdul Ch.P.O. Ambassador to Greece.

Academic Calendar/Summer Session 1995*

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 15</td>
<td>Last day for new students to apply for admission to the University for the Summer Session for courses beginning in May (Y,A,F and H courses).</td>
</tr>
<tr>
<td>March 31</td>
<td>Summer Session registration through the Student Telephone Service begins.</td>
</tr>
<tr>
<td>April 3</td>
<td>Summer Session in-person registration begins.</td>
</tr>
<tr>
<td>May 15</td>
<td>Last day for new students to apply for admission to the University for the Summer Session for courses beginning in July (B and S courses).</td>
</tr>
<tr>
<td>May 15</td>
<td>Classes for Y, A, F and H courses begin.</td>
</tr>
<tr>
<td>May 19</td>
<td>Last day to add Y, A, F or H courses.</td>
</tr>
<tr>
<td>May 22</td>
<td>Victory Day. University closed.</td>
</tr>
<tr>
<td>June 9</td>
<td>Last day to withdraw without academic penalty from A or F courses.</td>
</tr>
<tr>
<td>June 26-27</td>
<td>Last day of classes in A and F courses.</td>
</tr>
<tr>
<td>June 29</td>
<td>Last day for submission of term assignments in these courses. Final examinations, if required, will be held in a class period of the last week.</td>
</tr>
<tr>
<td>July 3</td>
<td>Social contract. University closed.</td>
</tr>
<tr>
<td>July 4</td>
<td>Canada Day holiday. University closed.</td>
</tr>
<tr>
<td>July 10</td>
<td>Last day to add B or S courses.</td>
</tr>
<tr>
<td>July 21</td>
<td>Last day to withdraw without academic penalty from Y or H courses.</td>
</tr>
<tr>
<td>July 28</td>
<td>Last day to withdraw without academic penalty from B or S courses.</td>
</tr>
<tr>
<td>August 7</td>
<td>Civic holiday. University closed.</td>
</tr>
<tr>
<td>August 14-18</td>
<td>Deferred examinations from April-May 1995.*</td>
</tr>
<tr>
<td>August 18</td>
<td>Last day of classes in B, H, S, and Y courses. Final examinations, if required, will be held in a class period of the last week.</td>
</tr>
<tr>
<td>August 31</td>
<td>Last day to request conferment of degree at the Fall...</td>
</tr>
<tr>
<td>December 11-December 20</td>
<td>Deferred examinations from June and August, 1995.*</td>
</tr>
</tbody>
</table>

* For dates on other campuses, see the appropriate Calendar.
Academic Calendar/Winter Session 1995/96

1995

April 1
Last day for new students to apply for admission to the University for full-time studies beginning in September.

June 1
Last day for new students to apply for admission to the University for part-time studies beginning in September.

June 19
Winter Session registration begins.

September 4
Labour Day. University closed.

September 5
Course changes through the Student Telephone Service begin.

September 7
In-person course changes begin.

September 11
Classes for Y, A, F and H courses begin.

September 22
Last day to add Y, A, F or H courses.

October 9
Thanksgiving Day. University closed.

November 1
Bursary applications should be submitted by this date.

November 3
Last day to withdraw without academic penalty from F or A courses.

November 15
Christmas Examination Schedule published.

December 8
Last day of classes in the first term. Last day for submission of term assignments in F and A courses.

December 11-December 20
Term test and final examinations period. Deferred examinations from June and August, 1995.*

December 22
Social contract. University closed.

December 23-January 1
Christmas break. University closed.

1996

January 2
Social contract. University closed.

January 8
Classes for B and S courses begin.

January 19
Last day to add B or S courses.

February 15
Last day to request confinement of degree at the June Convocation.

February 19-February 23
Reading Week - no classes held.

March 15
Annual Examination Schedule published.

April 5
Good Friday. University closed.

April 12
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 Y, H, B or S courses.

April 15-April 19
Deferred examinations from December 1995.*

April 22-May 8
Final examination period.

June 3
University Spring Convocations are likely to begin.

August 12-August 16
Deferred examinations from April/May 1995.*

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

Officers of the University of Toronto 1995/96

Chancellor
R. Wolfe, B.A.

Chair, Governing Council, (Acting)
F. Anthony Comper, B.A.

President and Chief Executive Officer
J.R.S. Pritchard, M.B.A., LL.B., LL.M.

Vice-President and Provost
A. Sedra, B.Sc. M.A.Sc., Ph.D.

Vice-President, Administration and Human Resources
M.G. Finlayson, B.A., M.A., Ph.D.

Vice-President, Computing and Communications (Acting)
D.W. Lang, B.A., M.A., Ph.D.

Vice-President and Chief Development Officer
J. Delaniere, B.A., M.Ed., Ed.D.

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

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A. Aberman, M.D., F.R.C.P. (C)

Vice-Provost and Assistant Vice-President (Planning & Budget)
D.W. Lang, B.A., M.A., Ph.D.

Vice-Provost
D. McCammond, B.Sc., Ph.D.

Vice-Provost
P. Gooch, B.A., M.A., Ph.D.

Assistant Vice-President, Research Services
P. Munache, B.A., M.A., Ph.D.

Assistant Vice-President, Student Affairs

Assistant Vice-President Operations and Services
J. Oliver, B.Com., M.Sc.

Chief Financial Officer
R.G. White, CMA.

Secretary of the Governing Council
J.G. Durno, B.A., M.A., Ph.D.

Officers of Scarborough College 1995/96

Principal and Dean
R.P. Thompson, B.A., M.A., Ph.D.

Vice-Principal and Associate Dean
M. Caddy-Keene, B.A., M.A. Ph.D.

Chair, Division of Humanities
L.J. Asrey, B.A., M.A., M.Phil., Ph.D.

Chair, Division of Life Sciences
C.M. MacLeod, B.A., Ph.D.

Chair, Division of Management and Economics
S. Bornin, B.A., M.P.P., Ph.D.

Chair, Division of Physical Sciences
J.M. Peris, B.A.Sc., M.A.Sc., Ph.D.

Chair, Division of Social Sciences
E. Ralph, B.A., M.Phil., Ph.D.

Registrar
D.J. Perry, B.S.B.A.

Librarian
M. Miller, B.A. (Hons.), M.L.S.

Director of Administration
P.S. Phillips, B.A., C.A.
Faculty of Scarborough College

Division of Humanities

Classics
J. Waten, M.A. (Carleton), Professor Emeritus
J. H. Corbett, M.A., Ph.D. (Toronto), Associate Professor
M. I. Irwin, M.A., Ph.D. (Toronto), Associate Professor
R. J. McDonald, B.A. (Alberta) Ph.D. (N. Carolina), Associate Professor

Drama
H. Oldendorf, A.M., Ph.D. (Stanford), Associate Professor
M. Q. Schonberg, M.A., Ph.D. (Toronto), Associate Professor
K. Thiil, M.A., Ph.D. (Yale), Associate Professor

English
R. M. Brown, M.A., Ph.D. (New York), Professor
W. J. Howard, M.A., S.T.B. (Toronto), Ph.D. (London), Professor
M. C. Cuddy-Kennedy, M.A., Ph.D. (Toronto), Associate Professor
J. Ray, M.A. (Otago), M.A., Ph.D. (Pensylvania), Associate Professor
J. Mason, M.A. (McGill), Ph.D. (Toronto), Associate Professor
A. J. G. Paterson, M.A. (McGill), Ph.D. (Birmingham), Associate Professor
K. Thiil, M.A., Ph.D. (Yale), Associate Professor
A. C. Thomas, M.A., Ph.D. (Toronto), Associate Professor
E. P. Velardi, M.A., Ph.D. (Toronto), Associate Professor
M. Gadsbille, M.A. (Western Ontario), Ph.D. (Toronto), Assistant Professor
G. Lepard, M.A. (Pandas), Ph.D. (Florida), Assistant Professor

Fine Art
G. Scavirzi, M.A., Ph.D. (Turin), Professor Emeritus
M. Gayer, M.A. (Ottawa), Ph.D. (Toronto), Professor
M. S. Spiers, M.A., Ph.D. (Bryan Mason), Professor
R. Barlow, M.A. (Toronto), Associate Professor
J. Carew, M.A. (Florida), Associate Professor
A. Bramen, M.A. (New Mexico), B.F.A. (York, Canada), Senior Tutor

French
C. Bertrand-Jennings, L.L.D. (Paris), Ph.D. (Wayne State), Professor
L. D. Beattie, B.A. (London), Ph.D. (Brown), Professor
W. J. Bancroft, M.A. (Montreal), Ph.D. (Harvard), Associate Professor
J. A. Curtis, M.A., M.Phil. (Toronto), Associate Professor
W. J. Kirkness, M.A. (Auckland), Ph.D. (Bathagou), Associate Professor
L. S. Legris, B.A. (Toronto), Ph.D. (Colombia), Associate Professor
S. Millier, M.A. (Toronto), Ph.D. (Strathclyde), Associate Professor
C. Evans, M.A. (Brockville), Ph.D. (Toronto), Senior Tutor
P. M. Moir, M.A. (Yale), Ph.D. (Toronto), Senior Tutor

German
H. Wittmann, M.A., Ph.D. (Mass.), Professor
H. Dolezal, M.A., Ph.D. (Stanford), Associate Professor

History
L. M. Moir, M.A., Ph.D. (Toronto), D.D. (Presbyterian College, Montreal), Professor Emeritus
M. K. Lass, B.A. (Toronto), M.A., Ph.D. (Ottawa), Associate Professor
M. H. McQuarrie, M.A. (Plymouth), Associate Professor
M. J. Abrey, M.A. (McMaster), Ph.D. (Yale), Associate Professor and Chair
W. D. Dick, M.A. (Edinburgh), Ph.D. (Tennessee), Associate Professor
E. Owler, M.A. (Harvard), Ph.D. (London School of Economics), Associate Professor
G. Iacovetta, M.A., Ph.D. (York, Canada), Associate Professor
J. L. Peel, M.A., Ph.D. (Northwestern), Associate Professor
J. E. Robertson, M.A. (McGill), Ph.D. (Toronto), Associate Professor
A. N. Sheps, M.A., Ph.D. (Toronto), Associate Professor

Humanities
C. V. Pomerson, M.A., Ph.D. (Toronto), Professor Emeritus
J. Minmore, M.A. (Carleton), Professor Emeritus

I. Bionick, M.A., Ph.D. (Chicago), Professor
W. C. Graham, M.A., Ph.D. (Toronto), Professor
R. Skymchuk, B.A. (Lettis), M.A. (Michigan), Ph.D. (Harvard), Associate Professor
H. Wimms, M.A., Ph.D., (Mass), Professor
W. J. Bancroft, M.A. (Montreal), Ph.D. (Harvard), Associate Professor
H. Oldendorf, A.M., Ph.D. (Stanford), Associate Professor
M. Q. Schonberg, M.A., Ph.D. (Toronto), Associate Professor
C. Evans, M.A. (Toronto), Ph.D. (Toronto), Senior Tutor

Italian
A. Fracchetti, Dott. in Lett. (Padua), Ph.D. (Chicago), Professor
D. M. Antilla, A.B. (St. Peter's, New York), New York, Associate Professor
J. A. Campana, B.A., M.A., Ph.D. (Toronto), Senior Tutor

Linguistics
R. I. Sinick, M.A., Ph.D. (Chicago), Professor
D. M. Jones, M.A. (Cornell), Ph.D. (Michigan), Associate Professor
J. D. Woods, B.A. (Bowdoin), Ph.D. (Mass), Associate Professor
R. Smyth, B.A. (Carleton), M.Sc. (Alberta), Ph.D. (Alberta), Assistant Professor

Music
J. R. Mayo, G.T.C.L. (Trinity College of Music, London, England), M.A., Ph.D. (Toronto), Associate Professor
W. Bowron, B.A., B.A.M. (Carleton), M.A., Ph.D. (Toronto), Assistant Professor

Philosophy
J. H. Sobel, M.A. (Iowa State), Ph.D. (Michigan), Professor Emeritus
P. W. Gough, M.A., Ph.D. (Toronto), Professor
W. C. Graham, M.A., Ph.D. (Toronto), Professor
W. E. Sager, M.A. (Alberta), Ph.D. (Toronto), Professor
R. P. Thompson, M.A., Ph.D. (Toronto), Professor
D. B. Cooke, M.A., Ph.D. (Toronto), Associate Professor
L. Louna, B.A., M.A. (Majestic), Ph.D. (Toronto), Associate Professor

P. C. Hsu, B.A. (University of Toronto), M.A. (Chinese Culture University), Ph.D. (California), Associate Professor
P. W. Gough, M.A., Ph.D. (York, Canada), Associate Professor
J. M. Muts, M.A. (Carleton), Ph.D. (Netherlands), Associate Professor (French)
D. M. J. Woods, B.A. (Bowdoin), Ph.D. (Harvard), Associate Professor (English)

R. Skymchuk, B.A. (Lettis), M.A. (Michigan), Ph.D. (Michigan), Associate Professor
K. Godin, B.A. (McGill), M.A. (Yale), Ph.D. (Toronto), Senior Tutor

Women's Studies
C. Bertrand-Jennings, L.L.D. (Paris), Ph.D. (Wayne State), Professor Emeritus
R. P. Thompson, M.A., Ph.D. (Toronto), Professor (Philosophy)
L. J. Abrey, M.A. (McMaster), M.Phil., Ph.D. (Yale), Associate Professor and Chair (History)
I. Boddy, M.A. (Calgary), Ph.D. (Toronto), Associate Professor (Anthropology)
L. Marra, M.A. (Carleton), Ph.D. (Toronto), Associate Professor (Fine Arts History)
M. C. Cuddy-Kennedy, M.A., Ph.D. (Toronto), Associate Professor (English)
M. E. Irwin, M.A., Ph.D. (Toronto), Associate Professor (English)
D. M. Jones, M.A. (Cornell), Ph.D. (Michigan), Associate Professor (Linguistics)
R. L. Jones, B.A. (McGill), M.A. (Toronto), Associate Professor (Philosophy)
M. L. E. Irwin, M.A. (McGill), Ph.D. (Toronto), Associate Professor (Philosophy)
C. B. Sinyard, B.A. (McMaster), M.A. (Queen's, Canada), Associate Professor (Sociology)
K. English, B.A., M.A. (Leeds), M.A. (York, Canada), Assistant Professor (Philosophy)
B. M. Filson, M.A. (Western Ontario), Ph.D. (Toronto), Associate Professor (Philosophy)
P. C. Hsu, B.A. (National Cheng-chung University), M.A. (Chinese Cultural University), Ph.D. (California), Associate Professor (Sociology)
P. W. Gough, M.A. (Bowdoin), Ph.D. (Toronto), Associate Professor (History)
M. Muts, M.A. (Carleton), Ph.D. (Toronto), Associate Professor (English)
D. M. J. Woods, B.A. (Bowdoin), Ph.D. (Toronto), Associate Professor (French)
C. B. Sinyard, B.A. (McMaster), M.A. (Queen's, Canada), Associate Professor (Philosophy)
Student Services

Counselling Services

Counselling Services is comprised of several departments which work together to provide integrated services to students. The Academic Counselling helps students to make decisions about their courses and programmes of study, offers seminars and individual counselling on study skills, strategies, and arranges special programs for students to explore professional and graduate school opportunities. The Career Centre provides individual counselling, seminars and workshops on job-searching and career exploration, and posts up-to-date listings of part-time, summer and permanent positions. The two centres share a library of educational, career and employment resources. The Financial Aid Centre distributes ISAP and out of province documents, provides information on scholarships and other awards, and arranges for short-term emergency loans. Special Services to disabled students provides counselling, advocacy, and support, adaptive equipment and services, and note-taking and alternative exam arrangements for eligible students. Room S902 (416) 287-7550

Health Services

Health Services offers the same services that any family doctor would provide in his or her office. Physician/psychiatric/social worker, a medical physician, counsellor and nurses assist students with emotional concerns, family, personal and relationship problems as well as anxiety and depression. The Health Educator provides individual counselling and seminars on many health topics. Room 8304 (416) 287-7065


N'Sheenamh (pronounced Nush-een-mah), the name of the University of Toronto’s Scarborough Campus Child Care Centre, is the sound of the chippewa, and also means “My little brother or sister”. According to the Ojibwe folklore, the name is a reminder to us to take good care of our little ones. Housed in a state of the art building which officially opened October 10, 1990, this non-profit centre is managed by a parent/parent/host board of directors. The board’s philosophy emphasizes the provision of a warm, secure, and loving environment which will foster the development of each child’s self-esteem, independence and self-control, while encouraging cooperation, consideration and empathy for others. In its three years of operation, N'Sheenamh has garnered praise for its thoughtful physical design and high level of child care expertise in programming and staff.

The centre is licensed for 48 children of students, staff, faculty and visitors. The centre also has a purchase of-service agreement with the government to assist low-income families with fees. As there is a very long wait for these subsidies, interested families are strongly advised to apply well in advance of the rate care will be available.

For more information about the centre, or to arrange for care, please contact the Director, Ms. Kathleen McIlroy at (416) 287-7624.

Student Residence

The Student Villages are located in attractive mature areas, close to the College Buildings. There are 114 townhouses in two villages, accommodating 520 people, plus four or six students in each house. There are
The houses are self-contained with study-bedroom, bathroom, kitchen and living-dining room. They are fully furnished, with well-equipped kitchens. Differences apply for sharing in a twin-bedded room, having a single or premium bedroom. Houses are assigned as either all male or all female for new students. Washers and dryers are provided in four laundry rooms. There is a telephone jack in each bedroom and a Cable TV outlet in the living room.

The Village Centre is your common room for social activities. It is open for you to drop in, watch TV, play the piano, table-tennis, darts, billiards, board games, etc., or simply relax, sit by the fireplace and chat with friends. Cultural, educational and social events are held here and the Villages' administrative offices are in this building.

The Doze, senior students, are front-line counselors who look after the well-being of residents on a 24-hour basis by nurturing the quality of life in residence and providing opportunities for residents to develop personally, intellectually and socially.

Our mission is to provide "decent housing" at reasonable costs; while assisting students to develop personally and socially in the townhouse environment.

We have guarantees to all new University of Toronto students, including local and part-time, and generally visiting students as well, as we reserve up to 30% of residence space for new people. We encourage you to stay longer than the summer to tour the Village and see the townhouse.

Please telephone for general enquiries:
(416) 978-7310

Sexual Harassment Education, Counselling and Complaint Office

The University of Toronto does not tolerate any form of sexual harassment and is actively making efforts to create an environment free of it. All forms of sexual harassment, from verbal abuse to inappropriate touching to sexual assault, are covered by the University's policy. The Sexual Harassment Education, Counselling and Complaint Office was established to educate the University community on this issue. The Sexual Harassment Office also provides counselling to those people who are the object of unwanted sexual attention and to those who are alleged to have sexually harassed someone, as well as

implements the formal complaint procedure. Contacting the Sexual Harassment Officer is not a commitment to file a complaint and at any point a complaint can be dropped.

The services of the Sexual Harassment Officer are available to all members of the University. All complaints and requests for information will be kept completely confidential unless the individuals involved agree otherwise. Members of the University at Scarborough College may arrange an appointment at Scarborough College. Those with the Sexual Harassment Officer may go to the downtown office, whichever is more convenient. For an appointment, information, to arrange educational or to file a complaint, contact the Sexual Harassment Education, Counselling and Complaint Office, University of Toronto, 455 Spadina Avenue (at College), Room 302, Toronto, Ontario, MSS 207 (telephone (416) 978-3908).

Special Services To Persons With A Disability

Special Services offers liaison with academic and administrative units and off-campus agencies. The service provides advocacy and support for students with a wide range of hidden or obvious disabilities and health considerations, and incorporates a learning disability division. Facilities include: provision of adaptive devices and equipment; tutoring; non-taking and alternative exam conditions for those eligible; on-campus transportation where appropriate; access to computer labs; and personal and career counselling.

The objective of the service is to facilitate the inclusion of students with special needs into all aspects of university life. Students are encouraged to discuss their individual needs with a member of the Special Services staff, and all discussions are confidential. Special Services also provides information and resource materials on health conditions and disability-related issues.

The office is in the Koffler Student Services Centre, 214 College Street, Toronto. Contacts: Dr. D.D. I. is available at Scarborough College. For more information please call (416) 978-8260 (voice) or (416) 978-1002 (TDD), FAX # (416) 978-8264.

Family Care Advisor

Many students balance family obligations with their studies. The University of Toronto is committed to fostering a

"family-friendly" learning and working environment.

The Family Care Advisor provides counselling and referral services to students who require child care, elder care or other forms of assistance with family responsibilities. Additional services include support groups, a newsletter and guest speakers. The drop-in resource centre contains a library of material on family issues.

The Family Care Advisor and the Resource Centre are located on the second floor of 40 Sussex Avenue, one block west of Robarts Library. Office hours are limited, therefore, students are asked to telephone (416) 978-0951 to arrange an appointment in advance.

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 studies. "Interchange", ISC's work or study abroad resource centre, provides information and counselling on overseas programs. ISC also offers special services to international students: pre-arrival information (sent with the admission offer), reception service and orientation events, English language program, newsletter and advice on non-academic concerns. Contact: ISC, 23 St. George Street, Toronto, Ontario, MSS 203, (416) 978-2364.

University Ombudsman

The Ombudsman assists in any way possible to resolve grievances or complaints, and can recommend changes in academic or administrative decisions where this seems justified. In handling a grievance or complaint, the Ombudsman has access to all relevant files and information, and to all appropriate University officials. The Ombudsman is independent of all administrative structures of the University, and is accountable only to the Governing Council.

For information, advice or assistance, contact the Office of the University Ombudsman, University of Toronto, 15 Hart House Circle, Toronto, Ontario MSS 2A1 (Telephone (416) 978-4574).
Programmes of Study and Course Descriptions

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

Specialist Programmes - Type of Degree
- Anthropology* - B.A./B.Sc.
- Astronomy & Physics - B.Sc.
- Biological Sciences - B.Sc.
- Chemistry - B.Sc.
- Computer Science - B.Sc.
- Computer Science & Mathematics - B.Sc.
- Computer Science & Physics - B.Sc.
- Computer Science & Statistics - B.Sc.
- Computer Science for Data Management - B.Sc.
- Drama - B.A.
- Economics & Evolution - B.Sc.
- Economics & Mathematics - B.A.
- Economics & Political Science - B.A.
- English* - B.A.
- Environmental Chemistry - B.Sc.
- Environmental Earth Science - B.Sc.
- Environmental Science - B.Sc.
- Fine Art Studio - B.A.
- French - B.A.
- French, Education of Teachers in French - B.A.
- Geography - B.A.
- History* - B.A.
- Linguistics - B.A.
- Management - B.A.
- Management & Economics - B.Com.
- Management & Economic Theory - B.Com.
- Mathematics - B.Sc.
- Mathematics & Statistics - B.Sc.
- Neuroscience - B.Sc.
- Philosophy* - B.A.
- Physical Sciences - B.Sc.

Major Programmes - Type of Degree
- Anthropology* - B.A./B.Sc.
- Astronomy & Physics - B.Sc.
- Biological Sciences - B.Sc.
- Chemistry - B.Sc.
- Classical Studies - B.A.
- Cognitive Science - B.Sc.
- Drama - B.A.
- Economics* - B.A.
- English* - B.A.
- Environmental Science - B.Sc.
- Fine Art History - B.A.
- Fine Art Studio - B.A.
- French Language - B.A.
- French Literature - B.A.
- Geography - B.A.
- History - B.A.
- International Development Studies - B.A./B.Sc.
- Linguistics - B.A.
- Mathematical Sciences - B.Sc.
- Music History - B.A.
- Neuroscience - B.Sc.
- Philosophy* - B.A.
- Political Science - B.A.
- Psychology - B.Sc.
- Sociology* - B.A.
- Spanish - B.A.
- Women's Studies - B.A.

Programmes of Study and Course Descriptions 17

- These are Programmes which the College makes available to students who are able to study in the evening only.
- Where students use a combination of three Programmes to satisfy the requirements of an Honours degree, in order to receive a B.Sc., two of the three must be in the sciences.
- Where students use two minor programmes to satisfy the requirements of a three year degree, in order to receive a B.Sc., both must be in the sciences.

Co-operative Programmes - Type of Degree
- Administration - B.A.
- Arts Administration - B.A.
- International Development Studies - B.A./B.Sc.
- Computer Science & Physical Science - B.Sc.
- Environmental Science - B.Sc.

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

Minor Programmes - Type of Degree
- Anthropology - B.A.
- Biological Sciences - B.Sc.
- Economics - B.A.
- English - B.A.
- French - B.A.
- Geography - B.A.
- History - B.A.
- Linguistics - B.A.
- Music History - B.A.
- Political Science - B.A.
- Philosophy - B.Sc.
- Sociology* - B.A.
- Spanish - B.A.
- Women's Studies - B.A.

-
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Description</th>
<th>Exclusion Code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESAS655</td>
<td>Environmental Hazards</td>
<td>3</td>
<td>An introduction to the relationship between geological background and possible solutions to major hazards and possible solutions in the environment.</td>
<td>EGM31210, ENM21210</td>
</tr>
<tr>
<td>EGA111Y</td>
<td>Reading Literature: The 20th Century</td>
<td>3</td>
<td>An introduction to literary and cultural context in the twentieth century through a study of selected works written in English, from the beginning of the century to the present day.</td>
<td>EGM31210, ENM21210</td>
</tr>
<tr>
<td>ENGB205Y</td>
<td>What is Culture?</td>
<td>3</td>
<td>An exploration of the development and emergence of &quot;culture&quot; as a concept and field of study.</td>
<td>EGM31210, ENM21210</td>
</tr>
<tr>
<td>ENGB206Y</td>
<td>American Literature: An Introduction</td>
<td>3</td>
<td>A broad survey of the development of literature in America from the early Colonial period to the twentieth century.</td>
<td>EGM31210, ENM21210</td>
</tr>
<tr>
<td>ENGB207Y</td>
<td>Shakespeare</td>
<td>3</td>
<td>A study of at least eleven plays by Shakespeare, both as unique works of art and in the larger context of his work as a Renaissance dramatist.</td>
<td>EGM31210, ENM21210</td>
</tr>
<tr>
<td>ENGB211Y</td>
<td>Visions of Drama</td>
<td>3</td>
<td>A study of drama from ancient Greece to the present day.</td>
<td>EGM31210, ENM21210</td>
</tr>
<tr>
<td>ENGB214Y</td>
<td>Visions of Fiction</td>
<td>3</td>
<td>A study of fictional strategies and techniques, drawing on a wide range of examples from early periods of narrative to the present day.</td>
<td>EGM31210, ENM21210</td>
</tr>
<tr>
<td>ENGB225Y</td>
<td>The Canadian Short Story</td>
<td>3</td>
<td>A study of contemporary short stories written by Canadian authors.</td>
<td>EGM31210, ENM21210</td>
</tr>
<tr>
<td>ENGB245Y</td>
<td>The Short Story</td>
<td>3</td>
<td>An introduction to the short story as a literary form.</td>
<td>EGM31210, ENM21210</td>
</tr>
<tr>
<td>ENGB255Y</td>
<td>Children's Literature</td>
<td>3</td>
<td>An introduction to children's literature.</td>
<td>EGM31210, ENM21210</td>
</tr>
<tr>
<td>ENGB250Y</td>
<td>Women and Literary Study</td>
<td>3</td>
<td>A discussion of the work of women writers and the history of women as students, teachers, and writers of literature.</td>
<td>EGM31210, ENM21210</td>
</tr>
<tr>
<td>ENGB261F</td>
<td>But Why is It Art?</td>
<td>3</td>
<td>An introduction to the basic ideas behind recent art, how they developed, and why they changed.</td>
<td>EGM31210, ENM21210</td>
</tr>
<tr>
<td>ENGB264Y</td>
<td>Twentieth-Century Art</td>
<td>3</td>
<td>A survey of twentieth-century painters and sculptors, primarily European, with an emphasis on their interactions with modern technology.</td>
<td>EGM31210, ENM21210</td>
</tr>
<tr>
<td>ENGB267Y</td>
<td>Art in North American Cultures</td>
<td>3</td>
<td>Uses and characteristics of art within the enormously varied contexts of first nations, colonial and post-colonial cultures in North America.</td>
<td>EGM31210, ENM21210</td>
</tr>
<tr>
<td>ENGB280Y</td>
<td>Women and Literature in France</td>
<td>3</td>
<td>A feminist perspective on fiction and drama in France in the last two hundred years. The course is offered in English and requires a prior knowledge of French.</td>
<td>EGM31210, ENM21210</td>
</tr>
<tr>
<td>ENGB290Y</td>
<td>The Last Hundred Years</td>
<td>3</td>
<td>An introduction to the most pertinent aspects of Tanenbaum's recent history and culture beginning with the end of WWI and taking into account the effects of Nazism, WWII, and the division of Germany. The course also attempts to understand the forces and pressures which brought about the unification of Germany. The course is taught in English.</td>
<td>EGM31210, ENM21210</td>
</tr>
<tr>
<td>ENGB295Y</td>
<td>The Twentieth-Century World</td>
<td>3</td>
<td>An introduction to the history and cultures of Africa, primarily sub-Saharan African societies.</td>
<td>EGM31210, ENM21210</td>
</tr>
<tr>
<td>ENGB296Y</td>
<td>Prologue</td>
<td>3</td>
<td>Twenty books of central importance in Western civilization.</td>
<td>EGM31210, ENM21210</td>
</tr>
<tr>
<td>ENGB297Y</td>
<td>East Asia and the Middle East</td>
<td>3</td>
<td>An introduction to the culture of China, Japan, India, Persia and the Islamic tradition through the reading of a selection of the most important writings.</td>
<td>EGM31210, ENM21210</td>
</tr>
<tr>
<td>ENGB298Y</td>
<td>Irish</td>
<td>3</td>
<td>Aspects of Irish history, literature, and culture.</td>
<td>EGM31210, ENM21210</td>
</tr>
<tr>
<td>ENGB299Y</td>
<td>Gothic</td>
<td>3</td>
<td>Aspects of Scottish history, literature and culture.</td>
<td>EGM31210, ENM21210</td>
</tr>
<tr>
<td>ENGB300Y</td>
<td>The English Language and its Peoples: Variations in Time and Place</td>
<td>3</td>
<td>An introduction to the history of the English language and its development into the different varieties of English spoken in the world today.</td>
<td>EGM31210, ENM21210</td>
</tr>
<tr>
<td>ENGB305Y</td>
<td>Introduction to Management</td>
<td>3</td>
<td>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</td>
<td>EGM31210, ENM21210</td>
</tr>
</tbody>
</table>
29 General Interest Courses

and societal considerations. This course
should be taken before any other MGT
courses.
Exclusion: Any other MGT course (except
BUS 302 for students in programmes requiring
BUS 202 or 302 for students admitted to the
Management programme, or students from
high school)
Exclusion: MGT101Y
MUSA115 Listening to Music
Telephone ID: 2261133
An introduction to the language of music for
non-musicans.
No previous musical experience is required.
Exclusion: MUS1200
Not offered 1995/96
MUSB115 Music for the Theatre
Telephone ID: 22621135
An introduction to the musical cultures of the
world's peoples.
No previous musical experience is required.
Exclusion: MUS1200
Not offered 1995/96
MUS116 Jazz
Telephone ID: 22621453
A history of jazz from its African and
European roots to present day experiments.
No previous musical experience is required.
Exclusion: MUS1200
Not offered 1995/96
MUSB118 Performing Arts of Asia
Telephone ID: 2262133
An introduction to the rich variety of
performing arts in their social and cultural
contexts as found in East, Southeast,
Central, and South Asia.
No previous musical experience is required.
Exclusion: MUS1200
Not offered 1995/96
MUSB125 The Classical Music and Culture of North India
Telephone ID: 22623233
This course examines the classical music of
North India in the context of Indian culture
and history.
No previous musical experience is required.
Not offered 1995/96
PHIL105 Social Issues
Telephone ID: 22611953
An examination of the moral questions
surrounding some of the following
shortages, capital punishment, human sexual
relations (homosexuality, adultery, etc.),
exegesis, ecology, civil disobedience,
policies towards the Third World and
towards the poor.
Exclusion: PHIL381
PHIL5356 The Art of Thinking
Telephone ID: 24523535
A study of methods and techniques for
developing effective reasoning and
argument, and an exploration of the
patterns of thinking that characterize
English thought.
Exclusion: PHILPH247H, TR200H
PHYS100 Dynamics of Classical Systems
Telephone ID: 2411033
An investigation of classical Mechanics:
statics, laws of motion and gravitation,
energy and momentum, angular motion,
planetary motion; mechanics of fluids:
density and elasticity, thermal expansion,
fluids at rest, fluids in motion; and
thermodynamics: ideal gases, kinetic
temperature, pressure, energy transfer,
entropy, the laws of thermodynamics.
Exclusion: PHYVA01, PHYVA02; PHY110,
130, 138, 150
Prerequisites: OAC Calculus and OAC Algebra
or Grade 13 Calculus
PHYS115 Electromagnetism and Solid State Devices
Telephone ID: 24811153
An exploration of electromagnetism,
alternating currents and solid state devices.
Exclusions: PHYVA01, PHYVA02; PHY110,
130, 138.
Prerequisites: OAC Calculus and OAC
Algebra or Grade 13 Calculus
SIBA135 The Civilization of Spain I
Telephone ID: 28721555
The events and personalities that have
shaped Spain from the Romantic Age to the
present.
This course is taught in English.
Exclusion: SIBA135 (HUMB909)
(HUMB300) SIBA250
Not offered 1995/96
WSTA107 Introduction to Women's Studies
Telephone ID: 31710153
An interdisciplinary course which brings
the perspectives of philosophy, psychology,
political theory, sociology, anthropology,
language, literature and the arts to the study of
the position of women in society.
Exclusion: JHSES47, SFNW205Y

Administration
(B.A.)
Specialist (Co-operative) Programme in Administration
Co-ordinator: B. Abramson (287-7112)
Supervisor of Study Abroad
The Co-operative Programme in Administration is a work-study programme
which combines academic studies, primarily in Management, Economics and Political
Science, with work experience in public and private enterprises. The programme
alternates study terms with work terms and typically requires almost five years to
complete. Administration students learn through both studies and practical
experience about:

- decision-making in both business and
government
- the management of policies and
programmes dealing with economic, political
problems
- financial and management accounting
- the allocation of resources
- policy and economic analysis
Students prepare for careers in business,
government, regulatory agencies, crown
corporations or for further study in the
Social Sciences (MA) in Business Administration (MBA)
Public Administration (MPA)
Accounting (C.A., C.M.A., C.G.A.)
Law (LL.B)
Industrial Relations (MIR)
Education (B Ed)
Graduates of this programme receive a
Bachelor of Arts (B.A.) degree, with a
Specialist in Administration.
Students who also complete the
requirements of the Specialist Programmes in
Management & Economics or
Management & Economic Theory will be
given Bachelor of Commerce (B.Com)
degree in lieu of a Bachelor of Arts (B.A.)
degree.
Admission to the Programme
Applicants apply to the programme only
from secondary school and must apply as
transfer students from college or
vocational school. The timing of work
placements for students who receive transfer
credit will depend upon the particular
university courses completed. When
applying, applicants must indicate the
special code for this Scarborough Campus
programme on the Application for
Admission To An Ontario University. Once
the University of Toronto is notified of the
application, candidates are sent an
additional co-op application form to
complete. To be considered for the first
round of selection, co-op applications must
be received by the University no later than
April 15. Therefore it is essential that the
applicant apply to the University at least six weeks prior to this date.
Note that enrolment in the programme
is limited. Admissions are granted on the
basis of applicants' interest and potential
ability in administration, accomplishment
and grades in both verbal and quantitative
studies, and a letter of reference from a high
school teacher or university instructor.
Interviews may be required.
Fees
Every student in a co-operative programme
is required to pay additional fees as
established by the University.
This programme requires eight to four-month
terms of study, four work terms and two
"off" terms over a five year period. In
addition to the twenty full-course credits
needed for graduating, extra credits will be
awarded for the work terms. Students begin
with a full academic year of study, then
alternate study and work terms, and conclude
with a final eight months of study.
Exceptionally, with the agreement of the
director and co-ordinator, a fifth work term
can be allowed. Work terms are arranged
and scheduled by the Office of Co-operative
Programmes but must be won by students in
collaboration with co-operative students
from this and other universities. During
work terms students gain experience in a
varied range of departments within
government, business enterprises or public
agencies. Depending on their needs and
abilities students work in areas such as
accounting, administration, auditing,
communications, economic development,
finance, human resources, information
systems, marketing, policy and
administration.
Careers in Accountancy
The college offers a significant number of
courses which have been recognized as
meeting part of the educational training of
Chartered Accountants, Certified General
Accountants and Certified Management
Accountants. Appropriate co-op work
terms with designated C.A.'s firms will be
recognized by the Institute of Chartered
Accountants of Ontario as part of their
major emphasis requirement.
Evaluation of Work Terms

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

To maintain standing in the program, to be eligible for a work term, and to receive specialist certification upon graduation, a student must:
- complete a full-time course of studies (at least two full-course equivalents and normally 2.5) during each study term
- maintain a cumulative grade point average of 2.50
- receive a satisfactory evaluation for work term performance and work term report.

Notes:
1. Each course may be counted only once in satisfying work placement and programme requirements.
2. It is the student's individual responsibility to ensure that they have completed the correct courses to make them eligible for each work term and that they have correctly completed program and degree requirements for graduation.

Eligibility for Work Terms
To compete for a work term a student must be in good standing in the program and must have completed:
- for the first work term: seven full-course equivalents, including one of ECO402 or ECO403, MGMT402, MGMT403, POLA60, and one of the courses from Section A, IV below,
- for the second work term: nine full-course equivalents, including the above courses and MGMT401, ECOB90, or ECOB91,
- for the third work term: eleven full-course equivalents including the above courses, a statistics half-course from Section C, I, II, and IV below, and MGMT82,
- for the fourth work term: thirteen full-course equivalents including the above courses.

Curriculum
In the first two years of study all students follow a common core of studies (Section A, below).

Beginning in the third year, students choose an advanced option (Section B, below) from the following fields of administrative studies: Economics, Political Science, and Management. The choice should be made on the basis of the student's career goals, personal interests and skills.

- advanced courses in Computer Science, Economics, Management, Mathematics, Political Science, Psychology, and Sociology have prerequisites so students must plan their studies with care.
- each student's curriculum requires the annual approval of the director of studies. In addition, all course changes must be approved by the supervisor of studies.
- if courses are not available, students should check with the supervisor of studies for alternatives.

For the first year (winter session) a student's course selection will depend upon which introductory course in ECO is chosen, since ECO402 has prerequisites of MATA28 or MATA28. If ECO402 is selected, a student will also take MATA28, MGMT402, MGMT403, and either POLA60 or a course from Section A, IV below.
- If ECO403 is selected, a student will also take MGMT402, MGMT403, POLA60, and a course from Section A, IV below.

Students must complete 15 full-course equivalents from the following curriculum in order to fulfill the academic requirements for this special program. The remaining 5 full-course equivalents for the degree can be chosen from the entire range of courses in the curriculum.

A. COMPARATIVE COURSES

(11.0 full-course equivalents)

1. SOCIAL SCIENCE FOUNDATIONS REQUIRED (6.5 full-course equivalents)

- Economics Courses
  - EC3005Y or ECO3105Y Introduction to Economics
  - ECO4025Y Microeconomics
  - ECO4035Y Price Theory

- Management Courses
  - MGMT402 Management Accounting
  - MGMT503Y Management Accounting
  - MGMT503Y Management Accounting
  - MGMT504Y Management Accounting
  - MGMT505Y Management Accounting
  - MGMT506Y Management Accounting
  - MGMT507Y Management Accounting

- Political Science Courses
  - POLA50Y Introduction to Political Science
  - POLA51Y Introduction to Political Science

- Sociology Courses
  - SOCI50Y Introduction to Sociology
  - SOCI51Y Introduction to Sociology

- Psychology Courses
  - PSY105Y Introduction to Psychology
  - PSY205Y Introduction to Psychology

- Business Courses
  - BUS505Y Introduction to Business
  - BUS506Y Introduction to Business

B. ADVANCED OPTIONS (4.0 full-course equivalents)

To be selected from courses available in Political Science, Economics and Management, depending on the student's area of interest.

- for students who have completed 3.0 full-course equivalents are to be from any of these three disciplines.
- one course from among the 4.0 full-course equivalents must be specifically deal with public administration or policy analysis (examples: ECOB1005B, MGMT52C, POLA50, SOC606).

Selection is subject to approval by the supervisor of studies.

C. ELECTIVES

(5.0 full-course equivalents)

ADMC101-201 Administration Co-op Work Term

Work terms are an integral part of the co-op curriculum. Practical work experience in an appropriate field is alternated with study terms to enhance academic studies and develop professional and personal skills. Work term reports are required at the completion of each work term.

Continuation in the co-op program is based on a student's ability to meet both the academic and work term requirements. To be eligible for work terms, students must be in good standing in the program and must have completed a required number of courses. (For details see page 22.) Course credit of 0.5 full-course equivalent is awarded for each four month work period. Work term credits are in addition to the 20 full course degree requirements and are eligible for a Credit, No Credit system. There are no additional course fees for work terms.

Anthropology (0.1 A.B.E.)

Discipline Representative: M. Latta (287-7350)

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

Because of the vastness of its subject matter, Anthropology is traditionally divided into four sub-fields: Social Cultural Anthropology, Archaeology, Physical Anthropology and Anthropological Linguistics. At the present time, Natchitoches College offers courses in the first three areas. Students interested in pursuing appropriate courses may take the courses offered in the Anthropology, and with the Supervisors of Studies.

Specialist Programme in Anthropology

Supervisor: H.B. Schroeder (271-7431)

The Specialist Programme in Anthropology is intended to provide the professionally-orientated student with background preparation of sufficient breadth and depth to pursue specialized training at the graduate level. It is also designed to offer interested students a course structure of sufficient flexibility to follow their intellectual interests into the diverse yet holistic perspective on the human phenomena provided by Anthropology. All students are required to consult with the Supervisor of Studies in the selection of a course sequence appropriate to their interests and objectives.

The Programme requires completion of twelve full-course equivalents, no less than two of which will be in Anthropology. Students must complete at least eight full-course equivalents in disciplines other than Anthropology within the four-year degree programme. The courses to be selected in the Programme are to be selected as follows:

1. ANTH101 Introduction to Anthropology

2. At least two full-course equivalents from among the following
   ANTH15Y Biological Anthropology
   ANTH232Y Social and Cultural Anthropology
   ANTH115 Introduction to World Anthropology

3. Seven full-course equivalents from the remaining B.C. or D-Level courses in Anthropology, at least two of which must be in the C or D-Level. Students are encouraged to take at least one course in each of the four sub-fields, such as ANTH12 and C60. In exceptional circumstances supervised research and reading courses are available at the C (ANTC1) and D-Level (ANTDI1F, ANTDS325). Be sure to read the descriptions for these courses below, as restrictions apply.

4. At least two full-course equivalents in disciplines other than Anthropology must be agreed upon in consultation with the Supervisor.

Major Programme in Anthropology

Supervisor: H.B. Schroeder (271-7431)

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

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

1. ANTH101Y Introduction to Anthropology

2. At least one full-course equivalent from among the following:
   ANTH15Y Biological Anthropology
   ANTH232Y Social and Cultural Anthropology
   ANTH115 Introduction to World Anthropology

3. ANTH232 Introduction to World Anthropology

4. Four additional full-course equivalents from B.C. or D-Level courses in Anthropology, at least one of which must be in the C or D-Level. Students are required to consult with the Supervisor of Studies regarding course selections, and requirements and are strongly urged to take at least two full-course equivalents in disciplines other than Anthropology within the three-year degree Programme.

Minor Programme in Anthropology

Supervisor: J.B. Schroeder (271-7431)

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

1. ANTH101Y Introduction to Anthropology

2. At least one full course from among the following:
   ANTH15Y Biological Anthropology
   ANTH232Y Social and Cultural Anthropology
   ANTH115 Introduction to World Anthropology

3. ANTH125 Introduction to World Anthropology

4. Two additional full-course equivalents in Anthropology, at least one of which must be in the C or D-Level. Students are required to consult with the Supervisor regarding course selections, identification of potential interdisciplinary streams (social-cultural, physical, archaeological), and course requirements.

ANTH101Y Introduction to Anthropology

Telephone ID #: 00710163

An introduction to the various fields of anthropology.

The first term deals with Physical Anthropology and Archaeology, 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. Lectures and materials.

Exclusions: ANTH100, Session: Winter Day M. Latin, MBA

ANTH101Y The Ecological Perspective in Anthropology

Telephone ID #: 00720163

An examination of the relationship between human populations and cultural systems with their environment.

This course examines such interrelationships in terms of differences in technology, subsistence practices, social organization and ideology. Emphasis will be placed on the perils of technological variability in human cultural behaviour to the solution of problems of adaptation and evolutionary change. But other positions will also be considered such as optimal foraging strategies.

Prerequisite: ANTH01, Session: Winter Day H.B. Schroeder

ANTH115 Y Biological Anthropology

Telephone ID #: 00721563

An examination of the relationship between human evolution and technology, principles, processes, evidence and application of the theory. Laboratory projects acquaint the student with the methods and materials utilized by the Physical Anthropologist. Specific topics include: the development of evolutionary theory, the biological basis for human variation, the evolutionary forces, human adaptability, primate biology, social organisation and behaviour of non-human primates, taxonomy and classification, palaeontological principles and human origins.

Exclusions: ANT201

Prerequisite: ANTH101 or permission of instructor

Session: Winter Day L. Suzuki, J. Thompson

ANTH232Y Social and Cultural Anthropology

Introduction to cultural anthropology.

ANTH125 Introduction to World Anthropology

An introduction to the various fields of anthropology.

ANTH101Y Introduction to Anthropology

Telephone ID #: 00710163

An introduction to the various fields of anthropology.

ANTH101Y The Ecological Perspective in Anthropology

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Session: Winter Day L. Suzuki, J. Thompson

24 Anthropology

25 Anthropology

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Exclusions: ANT201

Prerequisite: ANTH101 or permission of instructor

Session: Winter Day L. Suzuki, J. Thompson
26 Anthropology

ANTH101Y Culture of Modern Canada
Telephone ID: 00731163
This course has two objectives: to explore the regional and ethnic diversity of contemporary Canadian cultures, and to examine the forces which operate to build Canadians together.

The first objective entails consideration of localized case studies, e.g. of agriculturally based religious communities, Newfounland corpora, indigenous groups (Nunivak Indians and Metis), and others. The second involves searching for shared cultural meaning in Canadian literature, myth and symbolism, mass media, and political culture.

Prerequisite: ANTA091 or permission of instructor
Session: Winter Day
TBA

ANTH102Y Social and Cultural Anthropology
Telephone ID: 00731203
An examination of the basic approaches to understanding social and cultural organization in societies.

Focus on simpler societies, this course explores comparative social institutions, including kinship and marriage as well as economic, political and religious institutions. Some attention will also be given to belief systems, education and symbolic thought as well as sources of stability and change in society and anthropological perspectives on current social issues.

Exclusion: ANTA204
Prerequisite: ANTA010 or permission of instructor
Session: Winter Day
R.W. Shirley

ANTH207Y Private Behaviour
Telephone ID: 00732263
A survey course designed to acquaint students with the literature of non-human primates with particular emphasis on observing and recording primate behavior. Readings and lectures develop the context in which observations are analyzed. Tools of recording and analysis are practiced and presented in seminars.

Exclusion: ANTC22
Prerequisite: ANTA010 or ANTB15 or PSY301 or BIO103
Session: Winter Day
P.D. Burton

ANTH208F Human Nature: An Anthropological Inquiry
Telephone ID: 00732233
This course examines a fundamental question in anthropology: is there a "human nature"? Is there an intrinsic template which distinguishes the human species from all others? Are the attributions made to "human nature" adequate depictions of this, or are they convenient fictions for some other purpose? Myths, legends and parables have frequently used animal kin, especially non-human primates, as metaphors and models in which the "intrinsic" being of humans is derived from the characteristics attributed to other animals. This course investigates this desire to see ourselves reflected in other creatures by exploring the literature of physical anthropology and related fields which have attempted to describe "human nature." Two hours of lectures per week.

Prerequisite: ANTA010 or permission of instructor
Session: Winter Day
P.D. Burton

ANTH255Y Cultures of the Middle East and the Islamic World
Telephone ID: 00732556
An investigation of the similarities and variations among contemporary and traditional Muslim societies from an anthropological perspective.

Focusing primarily on the peoples of the Middle East and North Africa, this course seeks to explore the bonds of a common faith that is itself a social system, which unites the diverse cultures of the Islamic World.

Prerequisite: ANTA010 or permission of instructor
Session: Winter Day
J. Boddy

ANTH250F and ANTC045 Directed Reading in Anthropology
Telephone ID: 00730333 and 00730453
A directed exploration of specific topics in Anthropology, based on extensive investigation of the literature.

These courses are available in exceptional circumstances and do not constitute regular course offerings. Students are advised that they must obtain consent from the instructor before registering. Individual tutorials, as arranged, ANTC010 course work to be decided by the instructor, one seminar premester and the student's research findings is required.

Prerequisite: ANTA010 and one 3-level full-course equivalent in Anthropology and permission of instructor.
Session: Winter Day, Winter Evening, Seminars Evening
Members of Faculty

ANTH311Y The Anthropology of Women and Gender
Telephone ID: 00731163
A cross-cultural examination of sex roles and gender constructs and their implications for the position(s) of women in contemporary and traditional societies.

The course explores how and why socio-cultural systems based on sexual inequality originate, how they maintain themselves, and how they change. Topics include: biological freedoms and constraints; cultural interpretations of femaleness and maleness seen in myth, ritual, metaphor and other imagery; economic and political aspects of gender relations, especially sexuality and reproduction; differences and similarities between small scale and complex societies.

Exclusion: ANTA343
Prerequisite: ANTA010 or WSTA010 or permission of instructor.
Session: Winter Day
S. Ewen

ANTH109F Economic Anthropology
Telephone ID: 00731033
An investigation of comparative economic systems from ecological and adaptive perspectives.

In particular, this course focuses on methods of production, both as a developmental process and as it relates to total societal frameworks. The course examines cross-cultural systems of production, redistribution, and market exchange, with attention given to the production and use of material objects in differing cultural environments, and to the effects of change on the production of surrounding objects as products of specific environments. The marketplace is used as the focus for studying these features.

Prerequisite: ANTA010 or permission of instructor
Session: Winter Day
R.W. Shirley

ANTH38Y First Nations of North America
Telephone ID: 00733865
An introduction to the establishment and diversification of native traditions in North America from a late Paleolithic hunting base to the emergence of civilization in Mesoamerica. The course will focus on processes of cultural change and on archaeological methods of reconstructing the past. Primary attention will be paid to the civilizations of the eastern and southwestern United States. At the end of the course, a field trip to Ohio will permit students to obtain first-hand experience of the remains of the Hopewell moundbuilders, one of the most interesting and early traditions in this region.

Exclusion: ANTB38
Prerequisite: ANTA010
Session: Winter Evening
M. Latou

ANTC047Y Anthropological Demography
Telephone ID: 00734033
An examination of the biological, demographic, ecological and socio-cultural determinants of human and non-human population structure and the interrelationships among them. Lecture topics include: population and societal strategies for survival and adaptation, population structure of small-scale and urban societies, and paleodemography and paleodemography.

Prerequisite: ANTA010; ANTB15 is recommended
Session: Winter Day
L. Sweeney

ANTC047Y Human Osteology
Telephone ID: 00734763
A "hands-on" laboratory course which introduces students to the methods of analyzing human skeletal remains. This course is designed with the needs of Physical Anthropology and Archaeology students in mind, but has proven useful to students in allied disciplines. The first half of the course is the "Bone Biology" "Anatomy" part, while the second half is the "Anthropological" unit. During the first half of the year, lectures and labs will cover (1) the anatomy and macrostructures of bone; (2) the development, growth, remodeling and plasticity of bone; and (3) the detailed "normal" gross anatomy of the skeleton and its detail. Topics and analytic methods covered during the second half include: (1) the recovery and treatment of skeletal remains from archaeological sites; (2) osteodensitometry, including dental pathology; (3) osteometric description; (4) nonmetric traits (5) methods of estimating age at death and sex; (6) quantifying the gross size of bones using geometric data; and (7) paleopathology. One 1-1/2 hour lecture and one 1-1/2 hour laboratory session per week. Limited enrolment: 20
Exclusion: ANTC315K
Prerequisite: ANTA010 or BIO103; ANTC16 and ANTB15 recommended
Session: Winter Day
I. Thompson
ANTC4095 Law and Society
Telephone ID: 00775401
A comparative examination of the world's legal institutions and the problem of order in society.

The course will start with an examination of social control in relatively "simple" societies, followed by a survey of the legal institutions of various forms of the state. It is hoped to include some work on the philosophy of law.

Prerequisite: ANT101 or ANT210 or permission of instructor
Session: Winter Day R.W. Shirley

ANTC208 Fieldwork in Social and Cultural Anthropology
Telephone ID: 00773603
An investigation into how social-cultural anthropologists collect data and construct the course of fieldwork.

Students will be introduced to the fieldwork experience both through reading some of the classic descriptions of research in exotic societies and by designing and carrying out a small project or projects here in Toronto. We will cover such topics as the nature and uniqueness of the participant-observer method, note-taking and organization, emic and etic approaches, selecting informants/consultants, informal interviewing, and household surveys. We will also consider such problems as choosing a field site, existing and living in a foreign community, culture shock and cultural bias, and meeting the logistical and medical needs of the researcher.

Course Grades will also be given to ethical issues such as confidentiality and recirculation that arise in fieldwork. Limited examination of social-cultural fieldwork in the United States will be used to present to students in anthropology and international development studies.

Prerequisite: Any B-level course in Anthropology or IDS or permission of instructor.
Session: Winter Day TBA

ANTC2610 The Anthropology of Food: Human Needs
Telephone ID: 00773653
With its complement, ANT125, an examination of the historical development and continuing relationship of humans to their food sources.

In Part 1, we take the evolutionary approach: we investigate changes in the human diet over millennia as humans moved from gatherers-hunters to domesticators of food sources. The attendant redistribution of nutrient within society is the background for issues relating specifically to food availability. Topics to be discussed include human dietary needs, the primate base, malnutrition, and its consequences.

Exclusion: ANT1C56
Prerequisite: ANT101 and one other full-course equivalent at B or C level in Anthropology
Session: Winter Day F.D. Burton

ANTD155 Frontiers of Anthropology
Telephone ID: 007741553
An advanced seminar course primarily for majors and specialists in anthropology.

This year, we will explore current controversies and issues in human evolution.

Prerequisite: Permission of instructor
Session: Winter Evening J. Thompson

ANTD115 and D025 Advanced Research in Anthropology
Directed critical examination of specific problems in Anthropology, based on library and/or field research.

These courses are available in exceptional circumstances and do not duplicate regular course offerings. Students are advised that they must obtain consent from the supervising instructor before registering. Individual tutorials, as arranged. In addition to course work to be decided by the instructor, one seminar presentation of the student's research findings is required.

Prerequisite: ANT201 and two full-course equivalents in Anthropology, one of which must be at the C-level, and permission of instructor.
Session: Winter Day, Winter Evening, Summer
Members of Faculty

Course Not Offered in 1995-96

ANTD201S The Americans: An Anthropological Perspective
Course: An introduction to the historical development of US society as an anthropological perspective.

ANTD40Y Introduction to Archaeological Materials
Prerequisite: ANT201, ANT206 is recommended as a companion

ANTD406 African Cultures and Societies I
Survey
Prerequisite: ANT201 or permission of instructor

ANTC207Y Comparative Slavery
Prerequisite: ANT101
Canadian Native People
Prerequisite: ANT101 or permission of instructor

ANTC40F Myth and Symbol
Prerequisite: ANT201

ANTC54F Advanced Anthropology of Set
Prerequisite: ANT101

ANTC60V Anthropological Study of Religion
Exclusion: ANT1B02
Prerequisite: ANT201

ANTC60S African Cultures and Societies II: Case Studies
Prerequisite: ANT105

ANTC105F Complex Societies
Prerequisite: ANT101

ANTC112S Perspectives of Development
Prerequisite: ANT101

ANTC116Y Human Origins
Prerequisite: ANT201 or permission of instructor

ANTC25FS Anthropology and Psychology
Prerequisite: ANT201

ANTC26Y The Theory and Practice of Archaeology: An Introduction
Prerequisite: ANT101, ANT1E1F and ANT125 are recommended

ANTC22S Political Anthropology
Prerequisite: ANT201 or permission of instructor

ANTC22F Quantitative Methods in Anthropology
Prerequisite: ANT201; ANT1B15 and ANT2C6 are recommended

ANTC22F Predictive Models in Biocultural Anthropology
Prerequisite: ANT201 and ANT1C36 are recommended

ANTC41Y Human Adaptability
Exclusion: ANT1B14
Prerequisite: ANT201 or RIOA15 highly recommended
Specialist Programme in the Arts
Supervisor: J. Mayo (287-7191)
The Specialist Programme in the Arts is designed for all students with an active interest in the Arts. This programme will give the student a broad foundation in the areas of Fine Art, Music, and Drama while at the same time developing expertise in one of the areas. In addition, the more practical aspects of these areas can be studied in the minor component in Arts Administration.

We recognize that much artistic work cuts across the strict boundaries of these disciplines and this Programme will allow the student to explore the inter-relationships among the arts. Such exploration will be a stimulating experience to any student in the humanities.

The Programme is also intended to provide career preparation for students who are interested in each field as arts administration and public and high school teaching.

The course requirements for a Specialist Programme in the Arts are as follows:

1. The Major Component:
   - One of the following areas:
     - Drama
     - Fine Art History
     - Fine Art Studio
     - Music
   - In each case the courses taken are the same as those specified for the Major Component in the chosen discipline. Consult the calendar section under the individual disciplines.

2. The Minor Component:
   - Two of the following areas, other than the area chosen as the Major Component:
     - Arts Administration:
       - AAD601Y Introduction to Arts Administration
     - and 2 full-course equivalents from:
       - AAD602Y Cultural Policy
       - MGT702Y Introduction to Management
       - ECONOMYY Financial Accounting
       - or
       - ECO035YS Introduction to Economics: A Mathematical Approach
       - ECO035YS Public Decision Making*
       - MGT702Y Managing People in Organizations: Concepts and Skills
   - Students should check these courses for prerequisites

Creative Writing:
- ENGC06Y Creative Writing I

Independent Studies:
- Creative Writing
- and one full-course equivalent at the B-level in Directed Writing.

Drama:
- DRA201Y, DRA202F, DRA202L, DRA222F, DRA223S

Fine Art History:
- FARA101F, FARA111F, FARA121F, FARA131F, plus one full-course equivalent at the B-level (Supervisor's approval required).

Fine Art Studio:
- FARA007 and any two full-course equivalents in Fine Art Studio.

Music:
- MUSA007 and any two full-course equivalents in Music.

3. Arts Seminar: HUMC11H
   - Plus one and one half full-course equivalents from relevant disciplines. Authorization from the programme supervisor is required.

HUMC11H Arts Seminar
A seminar/intermediate course combining at least two of: Fine Art Studio, Fine Art History, Drama, Creative Writing and Music. Students will bring a proposal for a project to the supervisor early in the fall term. They will then present their seminar/performances in the spring term. The form of presentation will depend upon the development of the proposal and the disciplines involved.

Prerequisites: at least 10 full-course equivalents as the Arts Programme. Session: Winter, Co-ordinator: J. Mayo. Offered 1996/97 and 1997/98

Admission to the Programme

Applicants may apply to the programme directly from secondary school or may apply as transfer students from college or from this University. The timing of work placements for those students who receive transfer credit will depend upon the particular university courses completed. When applying, applicants must indicate the special code for this Scarborough Campus programme on the Application for Admission To An Ontario University. Once the University of Toronto is notified of the application, candidates are sent an additional co-op application form to complete. To be considered for the first round of selection, co-op applications must be received by the University no later than April 15. Therefore it is essential that the applicant apply to the University at least six weeks prior to this date.

Note that enrolment in the programme is limited. Interviews are held normally in May for students who pass the initial screening. Admission is based on the basis of applicants' academic performance, background in one or more of the arts, and interest and potential ability in Arts Administration. Facility in Mathematics at the high school level is highly desirable.

Fees

All students in a co-operative programme are required to pay additional fees as established by the University.

This programme requires twelve academic courses (four years) of study and two work terms of four months each. Students complete 8.5 full-course equivalents in (A) the administrative field, 6.0 full-course equivalents in (B) the arts and humanities field and 3.5 additional full-course equivalents from (C) an elective field. In addition extra credits are awarded for the work terms.

A. Administrative Field of Study
   - The following 8.5 full-course equivalents are required:
     - AAD601Y Introduction to Arts Administration
     - AAD602Y Cultural Policy
     - MGT702Y Senior Seminar in Arts Administration
     - ECONOMYY Introduction to Economics
     - ECUB03PS Public Decision Making
     - MGT702Y Introduction to Management
     - MGT702Y Financial Accounting
     - MGT702Y Managing People in Organizations: Concepts and Skills
     - POLA00Y Introduction to Canadian Politics
   - In addition extra students are expected to use some of their elective field (C) to take further courses in administration. The following courses are recommended: CSC600YS How Computers are Used
     - ECOB03Y Price Theory
     - ECOB07Y Macroeconomic Theory and Policy
     - MGT805PS Management Accounting
     - MGMTB05F Organizational Design in the Not-For-Profit Sector
     - MGT704F Principles of Marketing
     - MGT705Y Introduction to Marketing Management
     - MGT701F Management Control Systems
     - MGT702F Personnel Administration
     - MGT703Y The Legal Environment of Business
     - MGT704Y Industrial Relations
     - MGT705YS Market Research
     - PLEN809Y Public Policies in Canada
     - POLB00Y Canadian Public Policy and Administration
     - POLC06YS Administrative Politics
     - POLC08PS Policy Development and Political Evaluation
     - POLC01PS Administrative Theories and Policy-Making
     - POLC04PS Comparative Public Administration

   Please note that any of the above courses may be used as prerequisites and/or requirement of the instructor.

B. Arts Field of Study
   - Six full-course equivalents from one of the following fields:
     - Literature
     - Music
     - Drama
     - Film
     - Visual Arts
     - Music

   Required:
     - DRA201Y An Introduction to the Practical Elements of Theatre
C. Elective Field of Study

A further 2.5 full course equivalents chosen in consultation with the programme supervisor. The purpose of the elective field is to allow students some flexibility in shaping a degree programme to their interests and future needs. In making their choice students should remember that a working knowledge of a second language, especially French, may be particularly valuable. Students can choose one of the following options:

1. Courses chosen from a number of different subject areas with the aim of providing breadth to the student's programme.
2. A coherent selection of courses in one subject area.
3. Further concentration in the chosen academic field (B) or in the administrative field.

This option is particularly valuable for subjects working to complete the specialist requirements in their artistic field, or for students contemplating graduate study in the arts or in Business Administration. Students considering careers in a museum or graduate work in Museum Studies should use this option to take as approved programme courses in anthropology and other related disciplines. Students selecting option 2 or 3 will need to consult also with the programme supervisor in the chosen subject. The programme supervisor of the student's degree programme may supply details of suggested elective packages.

CONSULTATION WITH THE SUPERVISOR IS RECOMMENDED FOR ALL STUDENTS IN EACH YEAR OF THEIR PROGRAMME. IN ADDITION ALL PROGRAMME AND COURSE CHANGES MUST BE APPROVED BY THE SUPERVISOR OF STUDIES.

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 placement of work will vary widely according to availability and to the student's needs and abilities. Although the work placements are arranged by the co-ordinator of the Administrative Programme, they must be won by students in competition with all applicants for positions. Performance on work terms will be evaluated by both the employer and the co-ordinator. Students must also submit at the end of each work term a report which integrates knowledge gained during the placement with academic study already completed (see AAD01 and AAD02).

Eligibility for work placements

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

- two full-course equivalents from the artistic field
- AAD01Y (Introduction to Arts Administration)
- AAD02Y (Cultural Policy)
- MGT01Y (Introduction to Management)
- MGT02Y (Financial Accounting)

Normally students return to their studies after each work term, and must be registered in courses after the completion of their last work term. AAD01Y is taken after the completion of the first work term.

Standing on the programme

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

- maintain a cumulative grade point average of 2.50
- receive a satisfactory evaluation for work term performance and work term reports
- complete a full course of study (at least two full-course equivalents and normally 2.5) during each study term
- participate in special events and seminars arranged by the co-ordinator.

Courses in the first two years of the programme

The first year of study should consist of:

- AAD01Y, one full course equivalent from the artistic field, MGT01Y, MGT02Y, plus a foreign language course, or a further course in the artistic or administrative field.

The second year of study should consist of five full-course equivalents to include EC101Y, AAD01Y and a balanced mixture of administrative and artistic courses.

AAD01Y Introduction to Arts Administration

Telephone: 905-383-3000
An introduction to the theory and practice of arts administration in Canada.

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

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

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

Exclusion: AUC0900
Session: Winter Day

AAD02Y Cultural Policy

Telephone: 905-383-3000
An examination of culture and cultural policy in Canada and internationally from historical and contemporary perspectives.

The course will examine the history of cultural policy in Canada and internationally, differing views on the nature of culture and cultural policy and the role of government, critical contemporary issues and policy directions and the process of policy development. The course will provide an in-depth examination of policy issues facing the cultural sector and will also provide interested students in other programmes with a broad background in public policy and administration.

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

Session: Winter Day

AAD001Y and AAD02Y Arts Administration Co-op

The Arts Administration Work Terms forms an integral part of the co-op curriculum. They are designed to provide a student with practical experience in an appropriate setting, thereby enhancing the student's academic studies and developing professional and personal skills. To be eligible for a work term, a student must be in good standing in the Programme and have completed certain required courses and pre-placement seminars. The work term
Astronomy (B.Sc.)

Discipline Representative: C.C. Dyer (287-7204)

Astronomy is at the same time one of the oldest and one of the most dynamic areas of science. It is basically the attempt to understand the environment in which humanity develops. Our system is in which we find our direct and recent origins, to the largest of scales typified by quasars and the big bang, in which we must search for the very origins of structure ranging from the solar system to the largest structures, such as large clusters of galaxies and cosmic voids. The past quarter century has seen startling discoveries, such as the cosmic microwave background radiation, that have given us both new understanding of the universe and made us more aware of the problems still facing us in attaining a further understanding. 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 AST200T. For students wishing to further their study in astronomy, there are a number of B and C level courses, which are integral components of the Physical Sciences Specialist Programmes. In addition, the course AST300S is intended for students who have taken no previous astronomy, and covers the history of modern astronomy. It is intended to provide a historical perspective on modern astronomy, and by example, an introduction to the evolution of a number of modern scientific areas.

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

Specialist Programme in Astronomy, Mathematics and Physics

ASTAGY Introduction to Astronomy

A description of the solar system, sun, and the mechanisms which make our sun and other stars shine. Explains and demonstrates the evolution of our solar system, stars, galaxies and the universe as a whole. These 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. This is supplemented by a planetarium demonstration and a class trip to the David Dunlap Observatory. Using the College's 12 inch Cassegrain telescope, students also have an opportunity to observe and photograph heavenly bodies if they wish. Exclusions: AST100, 120, 200 Session: Winter Day

AST083 Great Moments in Astronomy

Telephone ID #: 011053
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: the first measurement of stellar distances; the prediction of the existence of Neptune; the discovery of the nature of stars; the proof of the existence of "cloud universes"; the birth of the theory of stellar structure; the detection of the cosmic fireball; 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. Exclusion: AST120 Prerequisite: Four full-course equivalents Session: Winter Evening

AST060 Celestial and Classical Mechanics

Telephone ID #: 011200
A consideration of classical mechanics with particular emphasis on its origins and applications in celestial mechanics. In particular, this course will examine the study of the motion of celestial bodies in planetary systems. Topics will include central force laws, Kepler's laws, conservation laws, Lagrange's equations, and an introduction to Hamiltonian mechanics. Prerequisite: AST060, MAT262Y, PHY100Y Course: MATB41P, MATB42S, PHY213

AST090 Research Topics in Astronomy

Telephone ID #: 0110043
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 ("minithesis") 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 consultations between the student and instructor. It is expected that at least 80 hours of work will be done during the year, following which the mini-thesis will be submitted to the instructor. For more detailed information see Professors Dyer or Kroenig. The bibliography is dependent upon the topic selected.

Students are advised that they must obtain consent from the supervising instructor before registering for this course. Exclusion: AST425 Prerequisite: ASTAD3 or 323, PHY215, permission of instructor Session: Winter Day

AST015 Stellar Systems, Galaxies, and Cosmology

Telephone ID #: 0115515
This course will consider the structure and evolution of collections of astrophysical bodies. Normally, the course will start with an investigation of the scale of stars. Topics will include the star clusters found in various regions of most galaxies, and their implications both for the evolution of the stars and for the evolution of the galaxies of which they are a part. The study of galaxies will extend to their morphology, evolution, and place in the evolution of larger systems, such as clusters of galaxies, superclusters, and eventually the universe. The large scale structure of the universe, cosmology, will be considered in the next assignment, leading to the simple Friedman models of the universe. Observational approaches to determining limits on the large scale structure of the universe will be considered. Prerequisite: ASTA0Y, ASTB0F Course: MATB41F, MATB42S, PHY225

Note: ASTC05 and ASTC51 will be offered in alternate years. The order that these courses are taken in a programme is determined solely by their alternating years of offering.

Course Not Offered: 1995/96

ASTC05 Structure and Evolution of Atmospheric Bodies
Prerequisite: Physics ASTA0Y, ASTB0F, MATB0A1Y, MATB41F, MATB42S, PHY225
Biological Sciences

(6 Sc.)

Associate Chair: R.E. Dengler

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

Five Programmes in Biology are offered: (1) Three Specialist Programmes: for students wishing to concentrate in the biological sciences. These Programmes cover core areas of Biology and require a number of courses in cognate disciplines. NOTE: it is possible for students to take the introductory mathematics and physics courses (or to take the Ecology and Evolution Programme) as mathematics and physics, geography, or geology courses in the second, third, or fourth years of the Programme. (2) The Major Programme: for students interested in Biology but wishing to combine it with other areas of interest. (3) The Minor Programme in Biology: for students primarily interested in Physical Science, Social Science, Management and Economics, and Philosophy who also have an interest in Biological Sciences.

It is recommended that all students be advised from time to time by their academic advisors. Students who have questions about their Programmes in Biology, or the year-by-year sequence of courses.

Major Programme in Biological Sciences

Supervisor: C.K. Gevild (office 5472C)

This Programme in Biology is designed to provide students with a broad background in Biology and also includes at least 1.0 full-course equivalent in one of the core areas of Groups 2.5. The core area of Groups 2.5. Courses with an * are fulled in this requirement in only one group.

Note: that B, C, and D level courses can be taken in any year after the first, subject to the fulfillment of the necessary prerequisites.

1. BIOAOY*. (ESEA046) cannot be substituted for BIOAOY in this programme

2. Structure and Diversity: BIOAOY*; BIOAOY1; BIOAOY2; BIOAOY3.

3. At least one full-course equivalent in Physiology and Biochemistry: BIOBOY*, BIOBOY1; BIOBOY2; BIOBOY3; BIOBOY4; BIOBOY5; BIOBOY6; BIOBOY7; BIOBOY8; BIOBOY9; BIOBOY10; BIOBOY11; BIOBOY12; BIOBOJ1.

4. At least one full-course equivalent in Ecology and Evolution: BIOBOY2; BIOBOY14; BIOBOY15.

5. At least one full-course equivalent in Cell and Molecular Biology: BIOBOY*; BIOBOY1; BIOBOY2; BIOBOY3; BIOBOY4; BIOBOY5; BIOBOY6; BIOBOY7; BIOBOY8; BIOBOY9; BIOBOY10; BIOBOY11; BIOBOY12; BIOBOY13; BIOBOY14; BIOBOY15; BIOBOY16.

6. Three full-course equivalents in Cognate disciplines:

Specialist Programme in Biological Sciences

Supervisor: G.K. Gervanid (office 5472C)

This Programme must include BIOAOY plus any three full-course equivalents in Biology, at least one full-course equivalent to be at the C or D level.

Specialist Programme in Cell and Molecular Biology

Supervisor: M. Fikows (office 5517)

This programme must include the following 14 full-course equivalents of which at least 6 must be at the C or D level. Note: at least one 1.0 full-course equivalent must be in plant science. The core area of Groups 2.5. Courses with an * are fulled in this requirement in only one group.

Note: that B, C, and D level courses can be taken in any year after the first, subject to the fulfillment of the necessary prerequisites.

1. BIOAOY*. (ESEA046) cannot be substituted for BIOAOY in this programme

2. A minimum of 1.0 full-course equivalent in Structure and Diversity:

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

4. At least one full-course equivalent in Ecology and Evolution:

Courses from the above which are not used to fulfill the requirement of the full-course equivalent in category 2 may be used to fulfill the requirement in category 3 below.

3. Three full-course equivalents in the following:

- BIOBOY*; BIOBOY1; BIOBOY2; BIOBOY3; BIOBOY4; BIOBOY5; BIOBOY6; BIOBOY7; BIOBOY8; BIOBOY9; BIOBOY10; BIOBOY11; BIOBOY12; BIOBOY13; BIOBOY14; BIOBOY15; BIOBOY16.

- BIOBOY2; BIOBOY3; BIOBOY4; BIOBOY5; BIOBOY6; BIOBOY7; BIOBOY8; BIOBOY9; BIOBOY10; BIOBOY11; BIOBOY12; BIOBOY13; BIOBOY14; BIOBOY15; BIOBOY16.

- BIOBOY2; BIOBOY3; BIOBOY4; BIOBOY5; BIOBOY6; BIOBOY7; BIOBOY8; BIOBOY9; BIOBOY10; BIOBOY11; BIOBOY12; BIOBOY13; BIOBOY14; BIOBOY15; BIOBOY16.

- BIOBOY2; BIOBOY3; BIOBOY4; BIOBOY5; BIOBOY6; BIOBOY7; BIOBOY8; BIOBOY9; BIOBOY10; BIOBOY11; BIOBOY12; BIOBOY13; BIOBOY14; BIOBOY15; BIOBOY16.

- BIOBOY2; BIOBOY3; BIOBOY4; BIOBOY5; BIOBOY6; BIOBOY7; BIOBOY8; BIOBOY9; BIOBOY10; BIOBOY11; BIOBOY12; BIOBOY13; BIOBOY14; BIOBOY15; BIOBOY16.

- BIOBOY2; BIOBOY3; BIOBOY4; BIOBOY5; BIOBOY6; BIOBOY7; BIOBOY8; BIOBOY9; BIOBOY10; BIOBOY11; BIOBOY12; BIOBOY13; BIOBOY14; BIOBOY15; BIOBOY16.

- BIOBOY2; BIOBOY3; BIOBOY4; BIOBOY5; BIOBOY6; BIOBOY7; BIOBOY8; BIOBOY9; BIOBOY10; BIOBOY11; BIOBOY12; BIOBOY13; BIOBOY14; BIOBOY15; BIOBOY16.

- BIOBOY2; BIOBOY3; BIOBOY4; BIOBOY5; BIOBOY6; BIOBOY7; BIOBOY8; BIOBOY9; BIOBOY10; BIOBOY11; BIOBOY12; BIOBOY13; BIOBOY14; BIOBOY15; BIOBOY16.

- BIOBOY2; BIOBOY3; BIOBOY4; BIOBOY5; BIOBOY6; BIOBOY7; BIOBOY8; BIOBOY9; BIOBOY10; BIOBOY11; BIOBOY12; BIOBOY13; BIOBOY14; BIOBOY15; BIOBOY16.

- BIOBOY2; BIOBOY3; BIOBOY4; BIOBOY5; BIOBOY6; BIOBOY7; BIOBOY8; BIOBOY9; BIOBOY10; BIOBOY11; BIOBOY12; BIOBOY13; BIOBOY14; BIOBOY15; BIOBOY16.

- BIOBOY2; BIOBOY3; BIOBOY4; BIOBOY5; BIOBOY6; BIOBOY7; BIOBOY8; BIOBOY9; BIOBOY10; BIOBOY11; BIOBOY12; BIOBOY13; BIOBOY14; BIOBOY15; BIOBOY16.

- BIOBOY2; BIOBOY3; BIOBOY4; BIOBOY5; BIOBOY6; BIOBOY7; BIOBOY8; BIOBOY9; BIOBOY10; BIOBOY11; BIOBOY12; BIOBOY13; BIOBOY14; BIOBOY15; BIOBOY16.
are to familiarize the student with the physical limitations with which plants must cope, and with the strategies that these plants use to coordinate their growth and development with their changing physical surroundings. Specific topics will include water and salt uptake and translocation, water loss, mineral nutrition, carbohydrate, protein and lipid metabolism, photosynthesis and respiration, and coordinated growth and development. How biochemical, physiological, cellular and molecular techniques contribute to our understanding of a plant's physiology will also be considered.

Two one-hour lectures per week, plus one two-hour tutorial most weeks. Prerequisites: BIOA03 or BIOB12 or permission of instructor. Session: Winter Day R. Boenstra

BIOB17V Animal Physiology

Telephonic ID: 01321763

A traditional course in animal physiology dealing with the function of cells and organs in highly evolved multicellular animals such as vertebrates and arthropods. The first term covers the purely "vegetative" physiological functions which keep the animal alive such as nutrition, temperature control, gas exchange, gas transport, circulation, excretion and consoregulation. The second term covers the "regulatory" physiology which controls and co-ordinates the functioning of the body such as nerve impulse conduction, synaptic transmission, muscle structure and function, neuromuscular systems, sensory receptors and autonomic and one three-hour laboratory per week. Exclusions: T40, T40S. Prerequisite: BIOA03 Session: Winter Day C E. Goodwin

BIOB25Y Developmental Biology

Telephonic ID: 01322563

The study of morphological change and underlying molecular and cellular processes which occur during the life history of an organism. This course provides an analysis of development in a variety of multicellular organisms. Particular reference will be given to the concept that regulation of gene activity is fundamental to development. In the Fall term the principles of animal development are dealt with. The following model systems are employed - fruit fly, sea urchin, Drosophila, spermatogenesis, myogenesis, frog and mammalian development.
In the last half of the second term aspects of plant development will be discussed. Topics will include seed germination, dormancy, and hormonal and environmental effects on plant development.

One two-hour lecture and one three-hour laboratory per week. Exclusion: ZOO528X
Prerequisite: BIOA03 Session: Winter Day J.R. Brown and T.E.A

BIOB25F Vertebrate Histology: Cells and Tissues
Telephone ID #: 01322533
A study of the structure of cells and the various tissue types which make up the vertebrate body: epithelial, connective, muscle, nervous, blood, and lymphatic with emphasis on their involvement in form and function.

Two one-hour lectures and one three-hour laboratory per week. Exclusion: ZOO351H
Prerequisite: BIOA03 Session: Winter Day J.H. Tooner

BIOB25S Vertebrate Histology: Organs
Telephone ID #: 0133255
The histological structure of the major organs systems of the vertebrate body (intestine, digestive, respiratory, excretory, reproductive, and endocrine) with particular emphasis on functional morphology, evolution, and development.

Two one-hour lectures and one three-hour laboratory per week. Exclusion: ZOO351H
Prerequisite: BIOA03, BIOB25 Session: Winter Day J.H. Tooner

BIOC15 Marine Biology
Telephone ID #: 01351553
A field course on selected topics of marine biology with particular emphasis on tropical waters. This course will be held during reading week at a field station in the Caribbean and will have a considerable practical component. Prior to field work, there will be a series of lectures on the origins of the oceans; waves, tides and currents; and the role of marine organisms at Scarlethead. On site, students will study three main habitats: rocky shore, open ocean, and coral reef. In addition, students will work on individual field projects. Limited enrolment: 10. Exclusion: BIO301 Prerequisite: Permission of instructor* Session: Winter Evening D.D. Williams
*At this course is often overcrowded, interested students must contact the instructor well in advance of the start of the fall term for details and dates, at best time, be prepared to place a deposit towards the cost of airfare and accommodation. Places are allocated on a first-come, first-served basis.

BIOC148 Microbiol in the Environment
Telephone ID #: 01351585
An examination of the relationships between microorganisms: algae, bacteria, fungi and plants and animals, and their environment. Abiotic factors of major importance to microorganisms will be discussed: pH, redox potential, temperature, radiation, pressure, and water activity. Interactions among microbial populations, as well as between microorganisms and plants, and microorganisms and animals, will be examined in detail. This will be followed by an examination of microorganisms in their natural habitats: air, water, and soil.

Two one-hour lecture per week. Several tutorials and problem sets. Text: Microbial Ecology: Fundamentals and Applications by R.M. Atlas and R. Bartha, Benjamin/Cummings Publishing Co., Inc. Exclusion: BIOB03 Prerequisite: BIOB02 or BIOB12 or permission of instructor Session: Winter Day C. Narazaki

BIOC19F Limnology
Telephone ID #: 01351933
A study of the branch of ecology which deals with relationships between organisms in a lake, and with other organisms and their environment. The structure and function of normal lake ecosystems will be examined with the objective of gaining insight into responses of lakes to man-made perturbations such as overfishing, eutrophication and acidification.

One two-hour lecture per week. Several tutorial and problem sets. Limnology by A.J. Horne and C.R. Bannister Exclusion: ZOO350H, ZOO471Y Prerequisite: BIOB12 or permission of instructor Session: Winter Day C. Narazaki

BIOC20Y Cell Biology
Telephone ID #: 01352053
A study of both structural and functional aspects of cells.

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

Two one-hour lectures per week. Exclusion: BIO205Y Prerequisite: One full course equivalent from the following: BI020Y, BI025Y, BI023Y, BI025F, BI026S, BI027F, BIOC35 or BIOC25Y. BIOC35Y may be taken concurrently.

Session: Winter Day R.E. Dungler and H. Tawson

BIOC315 Invertebrate Zoology
Telephone ID #: 01331517
An examination of the changes in the nervous system in invertebrates which occur naturally or through injury. Topics to be studied include: development and regeneration of claw symmetry in lobsters and crappie shrimps, conversion and regeneration of synapses in crayfish, central control of flight in locusts and neural basis of gill withdrawal in sea slugs. There are approximately 11 topics in the course and each is covered by examining 1-3 scientific papers in the lectures. In addition, two written reports in the form of scientific papers are required and these reports will be based on the student's analysis of data provided by the instructor.

One two-hour lecture per week and one laboratory as required. Prerequisite: BIOA03 or PSY101 Session: Winter Evening C.K. Govind

BIOC25F Developmental Neurobiology
Telephone ID #: 01352535
An examination of how the vertebrate nervous system develops and the mechanisms which guide its development.

Beginning with how the nervous system arises during embryonic development, this course will address how neurons acquire their dendritic properties, grow out to target tissues and make appropriate synaptic connections. Topics will include differentiation of nerve cells, migration of neurons, nerve growth factor, neurotrophic effects on muscle, synaptic formation and rearrangement of neuronal connections.

One two-hour lecture per week and tutorials as required. Prerequisite: BIOA03 or PSY1A01 Session: Summer Evening C.K. Govind

BIOC35Y Introductory Biochemistry
Telephone ID #: 0133563
An introductory course for students in the biological sciences, designed to introduce a broad range of biochemical topics. Topics covered in the course will include metabolism of sugars, amino acids and lipids and the relationship of these to the energy metabolism of the cell; the effect of hormones on cellular metabolism; structure and function of enzymes; structure and biosynthesis of nucleic acids; gene cloning techniques, biosynthesis of proteins. Regulation and integration of metabolic pathways will be discussed.

The teaching method will consist of three one-hour lectures per week. Exclusion: BIOC35, BICH320Y, BICH322I Prerequisite: BIDO10, CHMB441Y (CHMB50) Session: Winter Day J.W. Gard

BIOC36H Laboratory in Biochemistry
Telephone ID #: 0133643
An introductory laboratory course designed to introduce students to basic experimental techniques used in biochemical research. The course will introduce students to practical and theoretical aspects of techniques used in biochemical research, including: spectrophotometry, chromatography, radioisotopes, electrophoresis, protein fractionation, etc.

The teaching method will consist of four hours of laboratory work per week plus one hour of lecture. Exclusion: BICH326, BICH370H, BICH372I Prerequisite: BIDO10, CHMB441Y (CHMB50) Corerequisite: BIOC35 Session: Winter Day J.W. Gard

BIOC27F Plant Structure and Development: Cells and Tissues
Telephone ID #: 0133733
The structure and development of cells and tissue making up the vascular plant body are examined at the light and electron microscope levels. Embryos and seedlings are used to demonstrate the integration of
One two-hour lecture and one three-hour laboratory per week. Exclusion: BCH300, ZOO320
Prerequisite: BIO102, BIO112 or permission of instructor
Session: Winter Day D. H. Robins

BIO247S Community Ecology Telephone ID #: 01334753
An examination of community structure and dynamics, including both theoretical and experimental/quantitative approaches; topics covered include trophic structure, nutrient cycling, succession, herbivory, predator-prey theory, and the response of plants and animals to climate change, wildfires, pathogens and other environmental factors.
Exclusion: BOC310, ZOO322
Prerequisite: BIO102
Session: Winter Day D. H. Robins

BIO249F Molecular Physiology of the Bacterial Cell Telephone ID #: 01334833
A lecture and laboratory course emphasizing the molecular mechanisms of bacterial cell regulation of cellular processes such as active transport, chemotaxis, secretion and antibiotic resistance. The biological basis of using bacterial host-vector systems in recombinant DNA technology is discussed. Laboratory exercises are research-oriented experiments involving the growth and enumeration of bacterial cells, effects of antibiotics, incorporation of radioisotopes into nucleoacids and the isolation and characterization of bacterial plasmids. Gel electrophoresis, liquid scintillation counting and other research techniques are used.
Exclusion: BCH350, BCH352, BCH310
Prerequisite: BIO105, BIO115
Session: Winter Day J. C. Silver

BIO265S Environmental Toxicology Telephone ID #: 01334653
The analysis of plant and animal populations including the following topics: demography and life tables, life cycle, modes of reproduction, population regulation processes, competition and niche theory; conservation of declining and endangered populations.
Exclusion: BCH320, ZOO320
Prerequisite: BIO102, BIO112
Session: Winter Day J. C. Silver

BIO275F Theoretical Foundations of Biology I Telephone ID #: 01337033
An examination of the conceptual and logical aspects of explanation, theory, and model construction in biology.
Exclusion: BCH320, ZOO320
Prerequisite: BIO102 or BIO112
Session: Winter Day D. H. Robins

BIO277S Theoretical Foundations of Biology II Telephone ID #: 01337153
An examination of current theoretical controversies in evolutionary biology. Topics for 1995/96 are: Biological modeling, artificial life and "chaos theory" (Note: Although not required, a knowledge of calculus and linear algebra will enrich your understanding of some material for the course.)
Exclusion: BIP97Y, BIP97Y
Prerequisite: BIO275 (BIP275)
Session: Winter Day D. H. Robins

BIO289F Advanced Field Course in Ecology Telephone ID #: 01339931
Inter-university selection from a variety of field courses offered by the Ontario Universities Programme in Field Biology, a co-operative arrangement among nine universities in Southern Ontario. Courses, one or more 6-weeks' duration at field sites from late April through mid-September, are announced each January, and must receive a major project or paper report to be submitted within six weeks of course completion. A fee for room and board is charged over and above tuition. Lists of courses available are posted early in January. Sign-up is on a first-come, first-served basis. Students register in the fall after the course has been completed and may apply for the two-week course of two one-week field courses to complete this credit. See the sheriff through co-op coordinator, Richard A. Brown, for further details.
Exclusion: BIO105, BIO115
Prerequisite: BIO102, BIO112 or permission of instructor
Session: Winter Day D. H. Robins

BIO204Y Directed Research in Biology Identical to BIO204Y but not to be taken with the same faculty member.
Exclusion: Completion of fifteen full-course equivalents, of which at least four must be at the C-level, courses. Will require a seminar presented by the supervising instructor before registering for this course.
Exclusion: BCH400Y, ZOO400Y
Prerequisite: Satisfaction completion of fifteen full-course equivalents, of which at least four must be at the Graduate B- or C-level courses.
Session: Winter Members of Faculty

BIO218S Molecular and Classical Cytopathology Telephone ID #: 01341853
An examination of the structure of eukaryotic and prokaryotic. This study of structure will then be integrated with theories on how nuclear genetics accomplish chromosome replication and nuclear division. How evolution and differentiation of new genomes occur will be considered within the above framework. The emphasis for the course will be chromosome structure and organization, control of chromosome...
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replication, chromosome behaviour in mitosis and meiosis, chromosome and genome "aberrations," genome evolution and speciation, and molecular characterization of genomes - technological approaches. One-two hour lecture per week.

Limited enrolment: 40
Prerequisites: BIOL101 or BIOL102 or BIOC101 (BIOC335) or equivalent St. George course.
Session: Winter Day
C. Hauenstein

BIOC105 Molecular Biology of the Gene
Telephone ID #: 039452133
A study of the basic concepts of the molecular biology of the gene - key experimental observations.

This lecture and laboratory course will indicate how recent advances in genetic engineering have permitted great strides to be made in increasing our basic knowledge of the molecular biology of the gene. The course will demarcate how recent research activity utilizing recombinant DNA technology has advanced our understanding of areas such as the immune system, control of development, human genetic diseases and the molecular functioning of the brain.

Students will receive laboratory experience in the use of a range of molecular biology techniques.

One-two hour lecture per week. Lab sections will meet once every three weeks for a 9 a.m. to 5 p.m. session. Limited to 30 students.

Prerequisites: BIOL105 or BIOC101 (BIOC335)
Session: Winter Day
J.E. Brown

BIOC106 Physiology of Algae
Telephone ID #: 039452053
Algae are a heterogeneous group, ranging in size from about one micron in diameter to several meters, in morphology from simple unicellular to elaborate seaweeds, and in physiology, from exclusively photosynthetic organisms to forms which resemble bacteria and animals in their nutrition. The unusual status of algae as primary producers in aquatic environments has encouraged intensive investigations of their physiology.

Course content: Kinetics of growth in culture (batch cultures, chemostats and turbidostats), effects of environmental variables on photosynthesis, respiration, photoreception, and growth; heterotrophy, oxygen production and growth in extreme environments.

One two-hour lecture and three hours of laboratory per week. The laboratory work involves about five research-style experiments. Limited enrolment: 25.

Offered in alternate years.
Exclusion: BIOT340R
Prerequisites: Eight full-course equivalents in Biology
Session: Winter Day
C. Naidoo

Courses Not Offered 1986/86

BIOC32F Vertebrate Morphogenesis
Exclusion: ZOOG23Y
Prerequisite: BIOL10Y or BIOL10Z

BIOC39F Comparative Morphology of Fungi, Algae and Bryophytes
Exclusion: BIOT271
Prerequisite: BIOL103

BIOC40S Comparative Morphology of Vascular Plants
Exclusion: BIOT271
Prerequisite: BIOL103

BIOC50F Ecology Field Course
Exclusion: BIOL550
Prerequisite: BIOL102

BIOC59F Biology of the Invertebrates
Exclusion: ZOO353
Prerequisite: BIOL103 or BIOL104

BIOC55S Insects and Other Arthropods
Exclusion: ZOO353
Prerequisite: BIOL103, BIOL104 or permission of instructor

BIOC25S Animal Behaviour
Prerequisite: BIOL103 or BIOL104

BIOC36S Evolutionary Biology
Exclusion: BIOL304
Prerequisite: BIOL103 or BIOL104

BIOC66S Conservation Biology
Prerequisite: BIOL102

BIOC66B Advanced Genetics
Prerequisite: BIOL105

BIOC18F River Ecology
Exclusion: ZOO49Y
Prerequisite: BIOL102Y or BIOL103Y

BIOC09C or permission of instructor

BIOC17F Molecular Basis of Plant Development
Exclusion: BIOL340
Prerequisite: BIOL105

BIOC18B Evolutionary Genetics
Prerequisite: BIOL103 and BIOL104
Co-requisite: BIOL105 or permission of instructor

Chemistry

(B.Sc.)

Coordinator of First Year Studies in Chemistry: A. Verster (PHY17231)
Chemistry can be viewed as both a challenging intellectual pursuit and a powerful, practical tool for developing and handling the resources of our contemporary society. A sound knowledge of the fundamental concepts of chemistry is useful to any student in the Physical or Life sciences. The Chemistry Handbook outlines the teaching and research activities of the Chemistry faculty and offers a wide range of informal advice on undergraduate activities.

The basic course in chemistry is CHM20Y which must be taken by those who want to take further chemistry courses or who require chemistry for another science.

Completion of CHM20Y permits students to take any of the B-level courses in Chemistry. These are divided according to the following subdivisions:

Inorganic Chemistry, Analytical Chemistry, Physical Chemistry and Organic Chemistry. Thereafter, one can proceed to advanced-level courses at the C and D level.

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

To Enter St. George Series Scarborough Courses

420 CHMA10Y
430 CHMA10Z
450 CHMA22Y
CHMC22F
CHMC25Y
CHMD11Y
CHMD13Y
CHMC33S
CHMC36S
CHMA20Y
CHMA20Z
CHMC44Y

NOTE: TIMETABLE CONSTRAINTS USUALLY PRECLUDE SCARBOROUGH COURSES BEING TAKEN IN THE SAME YEAR.

While courses in Physics do not appear among the prerequisites or complications of most courses in Chemistry, students are urged to take PHYA01Y early in their programmes. Thus, the suggested first-year programme in Chemistry includes CHM20Y, MAT20Y and PHYA01Y.

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

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

Specialist Programme in Chemistry
Specialist Programme in Chemistry and Biochemistry
Specialist Programme in Environmental Chemistry
Major Programme in Chemistry
Major Programme in Biochemistry

CHM20Y General Chemistry
Telephone ID #: 03810263
Nuclear chemistry, atomic and molecular structure, ionic solids, bonding in organic compounds; states of matter and equations of state; thermochemistry, chemical equilibrium in the gas phase and in solutions; reaction kinetics.

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

Exclusions: CHM132, 133, 135, 136, 157, 151, 153
Prerequisite: OAC Chemistry (or Grade 12 chemistry and permission of instructor); OAC Calculus
Corequisite: None

CHEM10Y strongly recommended and is required for some higher level chemistry courses.
Session: Winter Day
Two lectures and one three-hour laboratory every week.

Session: CHIDM354Y
Exclusion: CHIDM454Y
Prerequisite: CHIDM354Y

Session: Winter Day

CHIDM355 Library Thesis
Similar to CHIDM50Y but representing 130 hours of work.

The objective is to obtain a thorough understanding of a topic of current interest and to prepare a comprehensive and critical report on this subject. The student will also develop familiarity with the techniques of searching the chemical literature. The topic will be selected in conference with a member of the chemistry staff. Progress will be monitored during periodic consultations with the staff member.

Session: Summer Day, Winter Day

CHIDM356 Special Topics in Inorganic Chemistry
A selection of topics in inorganic chemistry, with an emphasis on recent developments.

Session: Winter Day

CHIDM357 Laboratory Thesis
A report on a selected current topic in chemistry based on literature research and carried out under the direction of one of the chemistry staff. Approximately 260 hours of work are expected.

The objective is to obtain a thorough understanding of a topic of current interest and to prepare a comprehensive and critical report on this subject. The student will also develop familiarity with the techniques of searching the chemical literature. The topic will be selected in conference with a member of the chemistry staff. Progress will be monitored during periodic consultations with the staff member.

Session: Summer Day, Winter Day

CHIDM407Y Introduction to Research Participation in a research project under the direction of a member of the Chemistry staff, requiring approximately 260 hours of effort.

The objective is to develop familiarity with some of the methods of modern chemical research. The particular research problem to be pursued will be determined by discussions between the student and the faculty director of the research.

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

Exclusion: CHIDM407Y
Prerequisite: Permission of instructor

Session: Winter Day

CHIDM411Y Organic Chemistry II
An in-depth treatment of organic reactions such as halogenation, substitution, elimination, and conformational analysis, spectroscopy of organic molecules and reaction mechanisms, and an introduction to various aspects of organic chemistry, free radicals, polymers, organometallic compounds, and the chemistry of naturally occurring molecules such as terpenes, steroids and carbohydrates. This course provides further experience in organic chemistry to students who have completed one course in the subject. The laboratory experiments are designed to complement the topics covered in lectures and to include work on more advanced techniques, and the use of modern physical techniques and newer synthetic methods.

Session: Spring term for 6 hours.

Exclusion: CHIDM32Y, CHID348, 349, 368, 369
Prerequisite: CHIDM33Y, CHIDM33Y

Session: Winter Day

CHIDM441Y Inorganic Chemistry Laboratory Telephone ID: 02843353
A selection of topics in inorganic chemistry, with an emphasis on recent developments.

The content of the course varies from year to year, so students should consult with the faculty members regarding the specific areas to be covered in a given year.

This course provides an introduction to current research areas and their theoretical and practical importance in inorganic chemistry. The emphasis will be on inorganic, but a good background in organic and physical chemistry is useful.

Two lectures per week.

Exclusion: CHIDM443Y
Prerequisite: CHIDM43Y

Session: Winter Day

Classical Studies 49

Classical Studies (BA)

Discipline Representative: J. Corbett (287-7144)

Classical Studies introduces the student to the Greek and Roman World, its literature, history, religion and government. Greek-Roman civilization was the wellbeing 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 are alive in English translation, and the computer-based Perseus project at Brown University presents sophisticated multi-media opportunities for exploring the ancient Greek world.

Major Programme in Classical Studies:

Suggested: J. Corbett (287-7144)

The Major Programme in Classical Studies provides a wide-ranging but intellectually coherent exploration of the peoples of classical antiquity and their institutions; the physical environment; the politics and government; and the social organization of the ancient Greeks and Romans. Their myths and their religious and philosophical ideas; their literatures and art, and their enduring legacy to us in many fields. Extensive use is made of original source materials in English translation, but no knowledge of classical Greek or Latin is required or presupposed. The student must select eight full-course equivalents, as follows.

1. CLA40Y Classical Civilization

This course is the prerequisite for many of the courses in the following groups and should be taken as early as possible.

2. One-half full-course equivalents in political and social history

CLA241Y Political Institutions
CLA341Y Freedom in the Making of Western Culture
CLA342Y Army and Empire in the Roman World
CLA441Y Slavery in the Roman Empire
CLA541Y Women, Family and Household in Ancient Greece
CLA551Y Family and Household in Ancient Rome

CLA20Y Introduction to Greek
CLA21Y Introduction to Latin

CLA50Y History of the Ancient World
CLA354Y The Roman World Today
CLA361Y The Greek World Today

CLA40Y Classical Civilization

CLA241Y Political Institutions
CLA341Y Freedom in the Making of Western Culture
CLA342Y Army and Empire in the Roman World
CLA441Y Slavery in the Roman Empire
CLA541Y Women, Family and Household in Ancient Greece
CLA551Y Family and Household in Ancient Rome
3 One full-course equivalent in the area of myth and religion
CLA92F5 Mythology
CLA95F5 Greek and Roman Religion
CLA96F5 Christianities in the Greco-Roman World

4 One full-course equivalent in the area of literature and language
CLA90F5 Selected Topics in Classical Literature
CLA97F5 Ancient Drama: Comedy
CLA98F5 Ancient Drama: Tragedy
CLA99F5 Ancient Epic: The Oral Tradition
CLA10F5 Ancient Epic: The Literary Tradition

5 One half-course in ancient philosophy
PHL90F5 Plato I
PHL91F5 Aristotle I
PHL92F5 Plato II
PHL93F5 Aristotle II

6 One half-course in ancient art
FAR95F5 Ancient Art and Architecture
FAR96F5 The Human Figure in Greek Art (4th-4th Centuries B.C.)
FAR97F5 Classical Greek Sculpture
FAR98F5 Wall Painting in Ancient Egypt and the Bronze Age Greece

7 One full-course equivalent in the area of the lasting Greek and Roman legacy in
CLA90F5 Selected Topics in Classical Civilization
CLA91F5 Classical World
CLA92F5 The Beginnings of Christianity
CLA93F5 Science and Technology in Ancient Rome
CLA94F5 Law and Society in the Roman Empire

8 One and one half full-course equivalents at the C level, from:
CLA95F3F5 Supervised Study in Classical Archaeology
CLA96F5 Supervised Study in Classics II: Persians

Minor Programme in Classical Studies
Supervisor: J.H. Corbitt [287-716]

The Minor Programme 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 study in a number of related disciplines.

For the Minor Programme in Classical Studies, students must complete four full-course equivalents to be selected as follows:

CLA90Y Classical Civilization
CLA91F5 Mediterranean Languages
CLA92F5 Freedom in the Making of Western Culture
CLA93F5 Army and Empire in the Roman World
CLA94F5 Slavery in the Roman Economy

CLA95F5 Ancient Drama: Comedy
CLA96F5 Ancient Drama: Tragedy
CLA97F5 Ancient Epic: The Oral Tradition
CLA98F5 Ancient Epic: The Literary Tradition

CLA99F5 Where appropriate, students whose needs will be better met by CLA90Y may substitute that course for CLA90Y with the permission of the Programme Supervisor.

CLA91Y Classical Civilization
Telephone ID: 03010163
An introduction to the Greco-Roman World, the achievements of the Greeks and Romans in literature, philosophy, science, and government.

CLA92F5 Freedom in the Making of Western Culture
Telephone ID: 03010164
These achievements will be set in an historical framework to enable the student to make informed choices to be traced. The course will not merely be a survey course. Provision has been made for students to study in depth in carefully selected areas, with readings, in translation, from the classical authors.

CLA93F5 Army and Empire in the Roman World
Telephone ID: 03010165
An introduction to the expansion of the Roman Empire, with particular attention to the role of the army in the successes and failures of empire. The course will consider the role of the army in the expansion of the Roman Empire.

CLA94F5 Slavery in the Roman Economy
Telephone ID: 03010166
The development of modern economic theory.

CLA95F5 Ancient Drama: Comedy
Telephone ID: 03010167
An introduction to Greek and Roman theatre, with particular attention to the role of comedy in the development of the form.

CLA96F5 Ancient Drama: Tragedy
Telephone ID: 03010168
An introduction to Greek and Roman theatre, with particular attention to the role of tragedy in the development of the form.

CLA97F5 Ancient Epic: The Oral Tradition
Telephone ID: 03010169
An introduction to the oral traditions of the ancient world, with particular attention to the role of epic in the development of the form.

CLA98F5 Ancient Epic: The Literary Tradition
Telephone ID: 03010170
An introduction to the literary traditions of the ancient world, with particular attention to the role of epic in the development of the form.

CLA99F5 Where appropriate, students whose needs will be better met by CLA90Y may substitute that course for CLA90Y with the permission of the Programme Supervisor.

CLA90F5 Mediterranean Languages
Telephone ID: 03010171
Classical civilization.

CLA91F5 Mediterranean Languages
Telephone ID: 03010172
An introduction to the world of the Greeks and Romans, with particular attention to the role of the city-state in the development of the form.

CLA92F5 Mediterranean Languages
Telephone ID: 03010173
An introduction to the world of the Greeks and Romans, with particular attention to the role of the city-state in the development of the form.

CLA93F5 Mediterranean Languages
Telephone ID: 03010174
An introduction to the world of the Greeks and Romans, with particular attention to the role of the city-state in the development of the form.

CLA94F5 Mediterranean Languages
Telephone ID: 03010175
An introduction to the world of the Greeks and Romans, with particular attention to the role of the city-state in the development of the form.

CLA95F5 Mediterranean Languages
Telephone ID: 03010176
An introduction to the world of the Greeks and Romans, with particular attention to the role of the city-state in the development of the form.

CLA96F5 Mediterranean Languages
Telephone ID: 03010177
An introduction to the world of the Greeks and Romans, with particular attention to the role of the city-state in the development of the form.

CLA97F5 Mediterranean Languages
Telephone ID: 03010178
An introduction to the world of the Greeks and Romans, with particular attention to the role of the city-state in the development of the form.

CLA98F5 Mediterranean Languages
Telephone ID: 03010179
An introduction to the world of the Greeks and Romans, with particular attention to the role of the city-state in the development of the form.

CLA99F5 Where appropriate, students whose needs will be better met by CLA90Y may substitute that course for CLA90Y with the permission of the Programme Supervisor.

CLA90Y Classical Civilization
Telephone ID: 03010180
A study of the ancient world, with particular attention to the role of the city-state in the development of the form.

CLA91Y Classical Civilization
Telephone ID: 03010181
An introduction to the classical world, with particular attention to the role of the city-state in the development of the form.

CLA92Y Classical Civilization
Telephone ID: 03010182
An introduction to the classical world, with particular attention to the role of the city-state in the development of the form.

CLA93Y Classical Civilization
Telephone ID: 03010183
An introduction to the classical world, with particular attention to the role of the city-state in the development of the form.

CLA94Y Classical Civilization
Telephone ID: 03010184
An introduction to the classical world, with particular attention to the role of the city-state in the development of the form.

CLA95Y Classical Civilization
Telephone ID: 03010185
An introduction to the classical world, with particular attention to the role of the city-state in the development of the form.

CLA96Y Classical Civilization
Telephone ID: 03010186
An introduction to the classical world, with particular attention to the role of the city-state in the development of the form.

CLA97Y Classical Civilization
Telephone ID: 03010187
An introduction to the classical world, with particular attention to the role of the city-state in the development of the form.

CLA98Y Classical Civilization
Telephone ID: 03010188
An introduction to the classical world, with particular attention to the role of the city-state in the development of the form.

CLA99Y Classical Civilization
Telephone ID: 03010189
An introduction to the classical world, with particular attention to the role of the city-state in the development of the form.
philosophers and statesmen to the foundations of western culture and social values will be examined in detail. Also taken into account will be the fact of slavery in Classical Greece, with its unique contribution to the ideology of freedom in the western tradition. Orlando Peterson's Freedom in the Making of Western Culture will be a major text.

Prerequisite: CLA070 or HIS051
Exclusion: GRI3001; (GRI295Y); (GRI295M);CLA310
Session: Winter Evening
J.H. Corbett
Not Offered: 1996/97

CLA108 Ancient Epic; The Literary Tradition
Telephone ID: 03030103
Literary or "secondary" epic as a self-conscious attempt to achieve a fusion of the heroic and the tragic in the Greek and Roman tradition.

The course will examine Apollonius Rhodius' Argonautica, Virgil's Aeneid, and Ovid's Metamorphoses as foundational achievements in European literature, with brief notice of subsequent developments in the genre of "literary" epic. How does "secondary" epic grow out of the oral tradition, and what makes it different? What are the qualities which have given these poems their permanence? Is epic possible today?

Exclusions: (CLA3001); (CLA3020);CLA255;CLA302
Prerequisite: CLA010Y
Session: Winter Day
J.R. McDonald
Not offered 1996/97

CLA108F Supervised Study in Classics II: Personae
An independent research project using the resources of the computer program Personae. The advent of an extensive, multifaceted computer database for the study of Greek antiquity in the form of the Personae Project has opened new possibilities for undergraduate research into many areas of life in classical Greece: history, literature, language, topography, the visual arts and architecture, among others. Under the supervision of a member of faculty, the student will design his or her own Personae "pathway" on a topic or topics to be submitted in consultation with the supervisor. To the extent that new software becomes available, a similar project in the area of ancient Rome is possible.

Students are advised that they must obtain consent from the supervising instructor before registering for this course. Prerequisite: 3 ECs in CLA, including CLA230, CLA480, and CLA481;
J.R. McDonald
Not offered 1996/97

CLA252 Science and Technology in Ancient Rome
Telephone ID: 030303453
The Romans as engineers, builders and scientists.

One of Rome's most enduring legacies is her achievement in the realm of practical science. The course will examine the Romans' attitudes to science and technology through study of physical remains and the extant written sources (in English translation). Buildings and remnants of various kinds, from aqueducts to temples, will be studied, with attention also to the Romans' contributions to such important areas as shipping and shipbuilding, military fortifications and concepts such as the arch and dome and the possibilities of interior space.

Prerequisite: CLA070 or HIS031
Session: Winter Day
J.R. Corbett

CLA252F Christianitity in the Greco-Roman World
Exclusion: (CLA323)

Prerequisite: CLA070 or one full-course equivalent in English or another literature.

Offered 1996/97

CLA315 Supervised Study in Classics
Exclusion: (CLA235)

Prerequisite: Permission in the Minor Programme in Classical Studies on November 1, 1992 or earlier

Offered 1996/97

CLA467FS Education in the Classical World

Prerequisite: CLA070

Offered 1996/97

CLA415FS Slavery in the Roman Economy
Exclusion: (GRI2904)

Prerequisite: CLA070 or HIS031

Offered 1996/97

CLA440F Law in Ancient Rome
Exclusion: CLA326

Prerequisite: CLA070

Cognitive Science (5.5c)

Course Title
CLA100, CLA300
Prerequisite: CLA300 or one full-course equivalent in English or another literature.

Offered 1996/97

CLA089FS Ancient Epic: The Oral Tradition
Exclusion: (CLA303); CLA305

CLA228, CLA039

Prerequisite: CLA070 or one full-course equivalent in English or another literature.

Offered 1996/97

CLA235FS Revised Topics in Classical Civilization
Exclusion: (CLA303)

Prerequisite: One full course equivalent in CLA or GRI or permission of the Instructor

Offered 1996/97

CLA245FS Ancient and Modern Tragedy
Exclusion: (DR418); (CLA090), (CLA326)

Prerequisite: CLA070

Offered 1996/97

Supervisor: J.M. Kennedy (287-7435)

Cognitive Science is the study of knowledge - how humans know, 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 considers questions like: Are we born with some knowledge already in place? How does our experience of the world allow us to
54 Cognitive Science

develop knowledge? How do we know the knowledge we already have affects our
psychology and brain mechanics, and behavioral and social factors... the knowledge
stored in visual images, words, or abstract propositions? How do we decide which
information is relevant to a specific question? How do we organize and
structure the information we learn? How do we store and retrieve it?

Researchers in philosophy and psychology, linguistics, and education,
(particularly in junior schools), computer science and anthropology all use different
methods to investigate these questions and have all provided part of the answers. The
Cognitive Science Program (Specialist and Major) includes courses from all these disciplines from the humanities and the sciences at both the theoretical and the practical levels.

The Specialist Program requires 12.5 courses; the Major Program requires 17.5 courses.

Specialist Program in Cognitive Science
Supervisor: J.M. Kennedy (287-7435)

Notes: (1) Students should check the prerequisites, corequisites and exclusions for all courses. (2) Cognitive Science students should consult with the supervisor of studies before selecting their Computer Science courses. (3) Students should also note that several courses in CSC, LCN, LNL, PHI, and PST offered on the St. George campus can be applied to their degree program by special arrangement with the supervisor of studies.

Required Courses
Six and one half full-course equivalents:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PSY100Y</td>
<td>Introduction to Psychology</td>
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<tr>
<td>LNA01Y</td>
<td>General Linguistics</td>
<td>0.5</td>
</tr>
<tr>
<td>PHI101Y</td>
<td>Fundamental Questions of Philosophy</td>
<td>0.5</td>
</tr>
<tr>
<td>CSOS109</td>
<td>Computer Basics</td>
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<tr>
<td>CSCS109S</td>
<td>Introduction to Computing</td>
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</tr>
<tr>
<td>PSY257Y</td>
<td>Data Analysis in Psychology</td>
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<td>PSY257Y</td>
<td>Perception and Cognition</td>
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<td>PSY257Y</td>
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<tr>
<td>PHI257Y</td>
<td>Belief, Knowledge and Truth</td>
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<tr>
<td>PHI257Y</td>
<td>Philosophy and Truth</td>
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Optional Courses
Psychology

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PSY202Y</td>
<td>Introduction to Social Psychology</td>
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<td>PSY202Y</td>
<td>Introduction to Developmental Psychology</td>
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<td>PSY202Y</td>
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<td>Human Brain and Behaviour</td>
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<td>PSY202Y</td>
<td>Experimental Design in Psychology</td>
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<td>PSY202Y</td>
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<tr>
<td>PSY202Y</td>
<td>Psychometric Methods Laboratory</td>
<td>0.5</td>
</tr>
<tr>
<td>PSY202Y</td>
<td>Cognitive and Representation</td>
<td>0.5</td>
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<tr>
<td>PSY202Y</td>
<td>Brain Mechanics and Behaviour. 2</td>
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<tr>
<td>PSY202Y</td>
<td>Psychology of Sensory Systems and Their Development</td>
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<td>PSY202Y</td>
<td>History of Psychology</td>
<td>0.5</td>
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<tr>
<td>PSY202Y</td>
<td>Current Topics in Memory and Cognition</td>
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<td>PSY202Y</td>
<td>Psychology and the Law</td>
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<td>PSY202Y</td>
<td>Neuropsychiatry</td>
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<tr>
<td>PSY202Y</td>
<td>Mechanism and Function</td>
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<td>or</td>
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<tr>
<td>COOG218Y</td>
<td>Supervised Study in Cognitive Science</td>
<td>0.5</td>
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Psychology

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<th>Course Title</th>
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<td>LNA01Y</td>
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<td>LNA01Y</td>
<td>Phonetics: The Study of Speech Sounds</td>
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</tr>
<tr>
<td>LNA01Y</td>
<td>Second Language Learning</td>
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<tr>
<td>LNA01Y</td>
<td>Phonetics: The Study of Speech Sounds</td>
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<tr>
<td>LNA01Y</td>
<td>Syntax</td>
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<tr>
<td>LNA01Y</td>
<td>Semantics: The Study of Meaning</td>
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</tr>
<tr>
<td>LNA01Y</td>
<td>pragmatics: The Study of Language Use</td>
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<tr>
<td>LNA01Y</td>
<td>Second Language Teaching</td>
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<tr>
<td>PLDS192Y</td>
<td>Developmental Psycholinguistics</td>
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Philosophy

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>COOG925Y</td>
<td>Supervised Study in Cognitive Science</td>
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<tr>
<td>PHI101Y</td>
<td>Philosophy of Education</td>
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Cognate Courses
One full-course equivalent chosen from the following:

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<th>Course Title</th>
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<td>CSCS107Y</td>
<td>Discrete Mathematics for Computer Science</td>
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<td>CSCS107Y</td>
<td>Computer Organization</td>
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<td>CSCS107Y</td>
<td>Computer Applications</td>
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<tr>
<td>MAT206Y</td>
<td>Linear Algebra</td>
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<tr>
<td>MAT206Y</td>
<td>Introduction to Optimization</td>
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</tr>
<tr>
<td>MAT206Y</td>
<td>Optimization of computer systems at the B-level or higher</td>
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</table>

Note: Students may substitute COOG925Y for PST251Y/F to satisfy Cognitive Science Program requirements for Required Courses. If this option is selected, PST251Y/F may be used to satisfy Cognitive Science Program requirements in the Optional Courses for Psychology.

Major Programme in Cognitive Science
Supervisor: J.M. Kennedy (287-7435)

Notes: (1) Students should check the prerequisites, corequisites and exclusions for all courses. (2) Cognitive Science students should consult with the supervisor of studies before selecting their Computer Science courses. (3) Students should also note that several courses in CSC, LCN, LNL, PHI, and PST offered on the St. George campus can be applied to their degree program by special arrangement with the supervisor of studies.

Required Courses
Three and one half full-course equivalents:

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<td>PST251Y</td>
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<td>General Linguistics</td>
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<td>Memory and Cognition</td>
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Optional Courses
Psychology

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<tr>
<td>PSY202Y</td>
<td>Introduction to Social Psychology</td>
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<tr>
<td>PSY202Y</td>
<td>Brain Mechanics and Behaviour. 1</td>
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<td>PSY202Y</td>
<td>Human Brain and Behaviour</td>
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<tr>
<td>PSY202Y</td>
<td>Experimental Design in Psychology</td>
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<td>Psychological Laboratory</td>
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<td>Psychology of Sensory Systems and Their Development</td>
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<td>PSY202Y</td>
<td>History of Psychology</td>
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<td>PSY202Y</td>
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<tr>
<td>COOG218Y</td>
<td>Supervised Study in Cognitive Science</td>
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Cognate Courses
One full-course equivalent chosen from the following:

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
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<tr>
<td>COOG925Y</td>
<td>Psycholinguistics</td>
<td>0.5</td>
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<tr>
<td>COOG925Y</td>
<td>Disruptor of Speech and Language</td>
<td>0.5</td>
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Cognitive Science

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>LNA01Y</td>
<td>Practical Language Analysis</td>
<td>0.5</td>
</tr>
<tr>
<td>LNA01Y</td>
<td>Phonetics: The Study of Speech Sounds</td>
<td>0.5</td>
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<tr>
<td>LNA01Y</td>
<td>Second Language Learning</td>
<td>0.5</td>
</tr>
<tr>
<td>LNA01Y</td>
<td>Phonetics: The Study of Speech Sounds</td>
<td>0.5</td>
</tr>
<tr>
<td>LNA01Y</td>
<td>Syntax</td>
<td>0.5</td>
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<tr>
<td>LNA01Y</td>
<td>Semantics: The Study of Meaning</td>
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</tr>
<tr>
<td>LNA01Y</td>
<td>pragmatics: The Study of Language Use</td>
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</tr>
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<td>LNA01Y</td>
<td>Second Language Teaching</td>
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<td>PLDS192Y</td>
<td>Developmental Psycholinguistics</td>
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<td>PLDS192Y</td>
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<tr>
<td>COOG218Y</td>
<td>Supervised Study in Cognitive Science</td>
<td>0.5</td>
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55 Cognitive Science

|x|y|z|w|v|u|t|s|r|q|p|o|n|m|l|k|j|i|h|g|f|e|d|c|b|a|Z|Y|X|W|V|U|T|S|R|Q|P|O|N|M|L|K|J|I|H|G|F|E|D|C|B|A|z|y|x|w|v|u|t|s|r|q|p|o|n|m|l|k|j|i|h|g|f|e|d|c|b|a|Z|Y|X|W|V|U|T|S|R|Q|P|O|N|M|L|K|J|I|H|G|F|E|D|C|B|A|
Computer Science

Discipline Representative: V. Hadziadze
(287-7256)
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 to a wide variety of applications. Closely related is the development of new forms of goals: programming languages for expressing algorithms; operating systems to manage the resources of a computer; and various mathematical and statistical techniques to study the correctness and efficiency of algorithms.

Theoretical computer science is 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. In the Specialist Program for Data Management there is an emphasis on information system development, an area of increasing importance to business, industry, and government. It can lead to graduate study but is designed primarily to prepare a student for a professional position.

Students interested in computer studies should also refer to Specialist and Major Programmes in Computer Science.

Please refer to the Physical Sciences section of the Calendar for the following six Programmes.

Specialist Programme in Computer Science
Specialist Programme in Computer Science and Mathematics
Specialist Programme in Computer Science and Physics
Specialist Programme in Computer Science and Statistics
Specialist (Co-operative) Programme in Computer Science and Physical Sciences
Major Programme in Mathematical Sciences (Computer Sciences)

Specialist Programme in Computer Science and Data Management:

Supervisor: G. Caputo (287-7255)
NOTE: Due to enrollment restrictions in required management courses, registration in this Program is limited. A maximum of twenty students will be admitted annually to the Second Year of the Program. Selection will be based on grades in first-year courses in Computer Science and Calculus. There are thirteen and one-half courses required for the Specialist Programme in Computer Science for Data Management. The courses may be taken in a different order than that listed below, but care must be taken to ensure that prerequisites are satisfied and conflicts avoided.

First year:
CSC345F, MAT104H1, or MAT104Y, MGT102Y, ECON202
First or Second Year:
CSC365S
Second year:
CSC365F, CSC382F, CSC382S, ECS102Y or ECS102Y, both MAT214F and MAT214S
Third year:
CSC324H, CSC327F, MGT202Y, STA474S*
*A lower-level statistics course is normally a prerequisite to STA474S.
Third or fourth year:
CSC424S, 434
Three half-courses to be chosen from the following options. Any one of: CSC326F, CSC31S, any two of: CSC324F, CSC305, 340, 372, 418, 428, 444, 454, 454, 456, 458, 485, 488, including at least one of:
Note that only CSC350, CS1, CS4, CS6a and CS6s are available at Scarborough; the remaining courses must be taken at the St. George Campus.
Consult the Department of Computer Science Undergraduate Student Handbook. In completing the Programme, a student is discouraged from including any Computer Science courses other than those required above.

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

CSC300 Computers and Society
CSC318 Computer Graphics and Applications
CSC319 Numerical Methods
CSC340 Information systems analysis and design
CSC372 Microprocessor software
CSC408 Software Engineering
CSC418 Interactive computer graphics
CSC424 Human–computer interactions
CSC450 Data management systems
CSC453 Compatability and logic
CSC444 Economics of computers

Major Programme in Computer Science

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

CSC400F/401H How Computers Are Used
Telephone ID #: CSC400F: 071-10223
Telephone ID #: CSC401H: 071-10223
An introduction to the parts of a computer and their interconnection.

This course includes a study of operating systems (commands, files, security), common applications (games, text processing, spreadsheets) and problem solving (algorithms, basic programming concepts). Other applications and topics include: data organization, communications, office automation, artificial intelligence, computing in other academic disciplines. Students will use micro-computers and will do some programming, but the aim of the course is to show how computers are used, not to teach programming. Primarily for non-science students, but may be followed by other CSC courses.

Exclusion: SMCL148H, VIC104H, CSC104; CSC405S. This course may not be taken after or concurrently with any other CSC course.

Courses (FS): Winter Day, Winter Evening Session (FY); Summer Evening Session.

CSC406F Computer Basics
Telephone ID #: 071-10653
An introduction to computer basics and terminology. Introduction to programming using the Turing language: Conditional statements and loops; arrays and records; subprograms. Use of computers: spreadsheets, database packages, computer graphics, word processors, communication packages.
This course is intended for students with no prior exposure to computer programming. Students who have some programming experience may enroll directly in CSCI58. Students who are primarily interested in the use of computers, rather than in computer programming, will find CSCI202 more relevant.

Exclusion: CSCI202, CSCI58, SCM104, VSC104.
This course may not be taken for credit after or concurrently with any other CSC course.
Session: Winter Day
CSCI275 Introduction to Scientific Computing
Telephone ID #: 03715753
An introduction to the use of computers in the physical sciences. Choice and design of algorithms and their implementation in a high level computer language, such as C or FORTRAN, for the solution of problems arising in the physical sciences. Topics will include elementary numerical analysis, such as numerical integration, mathematical modeling of physical systems, data fitting and interpolation. The use of database systems for information storage and query and the use of graphical display devices and software for visualization of physical systems will be considered. The use of computer algebra systems in the physical sciences will also be considered. (Intended primarily for physical sciences students who do not plan to pursue any of the Programs in Computer Science or Cognitive Science.)
Corequisite: MATA26Y, PHYH101Y
Session: Winter Day
CSCI347/57 Introduction to Database Systems
Telephone ID #: 03715833
Design and analysis of algorithms; reasoning about programs, their correctness and efficiency; procedural abstraction and modular design; subroutines, recursion and modules. Data abstraction: Data types and data structures. Comparison of several searching and sorting algorithms. Students with no programming experience may wish to take CSCI58 before CSCI347. Students who enroll in CSCI347 and find the coursework too difficult may "drop down" to CSCI58. The deadline for "dropping down" is October 15. The option of "dropping down" is not available if the student is enrolled in the concurrent CSCI408 (CSCI347 is not offered in that semester.)
Exclusion: CSCI148, 150.
Prerequisite: OAC in Algebra and Geometry, one other OAC in Mathematics, and some programming experience.
Session: Winter Day
Note: Students who have completed CSCI58 may not subsequently receive credit for CSCI406.
CSCI502 Software Tools in Unix and C Telephone ID #: 03720503
Introduction to programming in the C language and to the use of programmable command interpreters ("shells") in the UNIX operating system. Practice with UNIX software tools; their strengths and weaknesses.
Exclusion: CSCI209
Prerequisite: CSCI347
Session: Winter Day
CSCI526F File Structures and Data Management Telephone ID #: 03722833
An introduction to techniques for storing, accessing, and managing large scale data in computer systems. Hardware and software aspects of data processing; procedures, storage devices, communications, I/O control. Techniques for organizing and managing files: serial files, direct files, indexed files, multikey files, integrated files, file systems. Introduction to database management systems with emphasis on relational database systems.
Exclusion: CSCI228
Prerequisite: CSCI347
Session: Winter Day
CSCI526F Discrete Mathematics for Computer Science Telephone ID #: 03723833
A rigorous treatment of certain aspects of discrete mathematics with applications to computer science. Emphasis on the basic model and fundamental algorithms concerning integers (including induction, iteration, and recurrence), permutations and combinations, basic counting, and on logic (including propositional and predicate logic, and simple formal theories). Application to topics such as program correctness, formal program verification, algorithms from graph theory, and elementary set theory.
Exclusion: CSCI326
Prerequisite: CSCI58
Corequisite: MATH40Y (MATH40)
Session: Winter Day
CSCI585S Computer Organization and Design Telephone ID #: 03724150
This course is designed to give students an understanding of the operation and the hardware of a modern digital computer.
Specific topics include: an introduction to boolean algebra, the design and analysis of gate networks, memory devices, the organization of a simple microprogrammed machine, basic data representation, assembly language, addressing structures, mechanisms for input and output, the structure of peripheral devices, some case studies of particular machines. There will be four laboratory periods in which students will conduct experiments with digital logic circuits.
Enrollment limit: 100.
Exclusion: CSCI526
Prerequisite: CSCI58 or CSCI57 (strongly recommended: PHYS113)
Session: Winter Day
CSCI570S Computer Applications Telephone ID #: 03727053
An introduction to the representation and applications of graphs, computer simulation models, artificial intelligence, and numerical methods, including the use of data types such as stacks, queues, trees and heaps. Some exposure to languages such as FORTRAN, PL/I, and Pascal. Two hours of lectures, and a two-hour tutorial per week.
Exclusion: CSCI118, 158, 160, 270, (CSCI60)
Prerequisite: CSCI58, or CSCI57 and permission of instructor.
Corequisite: MATA26
Session: Winter Day
CSCI524S Principles of Programming Languages Telephone ID #: 03732453
A wide variety of programming styles and the programming languages that support them. Emphasis on recursion and concurrency; other programming regimens such as backtracking and constraint languages. Language features such as pattern matching, programs as data, and module encapsulation. Examples from languages such as Lisp, Concurrent Basic, Prolog, Smalltalk, and Simula. Enrolment limit: 100.
Exclusion: CSCI224
Prerequisite: CSCI58 (strongly recommended: CSCI58)
Session: Winter Day
MATH19F Combinatorics Telephone ID #: 20433133
A brief survey of the field of discrete mathematics with emphasis on problem solving. Elementary counting, generating functions and different types of permutations with restriction, Polya counting, graphs, network flow problems, balanced incomplete block design, incidence structures.
Exclusion: (MATH21)
Prerequisite: MATH14/CSCI18 and at least one other II-level course in Mathematics or Computer Science.
Session: Winter Day
CSCI506F Numerical Algebra and Optimization Telephone ID #: 03735050
The efficiency and stability of solution techniques for systems of linear equations and least squares problems, including LU- and QR-based algorithms. Algorithms for optimization problems, including linear programming, and for systems of nonlinear equations.
Exclusion: CSCI363H, CSCI530
Prerequisite: CSCI57 or CSCI58 (or CSCI60), MATH40Y, MATH41F and MATH425
Session: Winter Day
CSCI515 Numerical Approximation, Integration and Ordinary Differential Equations Telephone ID #: 03735153
Exclusion: ACTC12H, CSCI334H, (MATH331), CSCI531
Prerequisite: CSCI57, or CSCI58 or CSCI60, MATH40Y, MATH41F and MATH425
Recommended Preparation: CSCI50
Session: Winter Day
CSCI504 Effective and Efficient Computing
Telephone ID #: 03736453
Exclusion: CSCI226
Prerequisite: CSCI38H
Session: Winter Day
Co-operative Programmes

Scarborough Campus offers five co-operative programmes which combine academic study with work terms in areas related to the chosen field of specialization. The knowledge and skill acquired to compete in today's global economy is realized by passing classroom theory into a practical context. A broad-based curriculum is enriched with relevant, productive, paid employment.

Co-operative programmes take four to five years to complete and lead to a Bachelor of Arts (B.A.) or Bachelor of Commerce (B.Com.) or Bachelor of Science (B.Sc.) degree with Specialist Certification. The number and length of work terms varies depending on the programme. Work terms are arranged by the Co-ordinator for the programme but must be won by the student in competition with other applicants for the position.

The programmes offered are:

- Administration, Arts Administration, Computer Science and Physical Sciences, Environmental Science, and International Development Studies.
- Specialist (Co-operative) Programmes in Administration combines study and work experience in businesses and government.
- Core courses include Management (Commerce), Economics, Political Science, Statistics, and Computer Science. Four work terms (four months each) are available in such areas as accounting, administration, auditing, communications, finance, human resources, international sales and marketing, as well as in fields which involve economic or policy analysis. Graduates gain employment at all levels of government, large corporations, chartered accounting firms, small businesses, and quasi-government organizations.

For further information, consult the listing under Administration (page 21).

Specialist (Co-operative) Programme in Arts Administration integrates studies in Drama, Music, or Fine Art with administrative courses in Management (Commerce), Economics, Political Science, Cultural Policy and Arts Management. Work experience is gained in galleries, museums, opera, theatre and dance companies, symphony orchestras, arts service organizations and government cultural agencies. For further information, consult the listing under Arts Administration (page 31).

Co-operative Programmes in Computer Science and Physical Sciences combines scientific and mathematical studies with work experience in research and technology in the private and public sectors. The programme prepares students for permanent employment in areas concerned with research and technology as well as for further study in computer science. For further information, consult the listing under Physical Sciences (Scarborough) (page 162).

Specialist (Co-operative) Programme in International Development Studies prepares students for careers in international development. Courses include Economics, Political Science, Ecology, Geography, and related sciences and social science courses. Students spend 10 weeks in placement with a Canadian or an indigenous organization in Asia, Africa or Latin America. Career opportunities in Canada or abroad, include work with a variety of Canadian development agencies (NGOs), CIDA, the United Nations, and development education learner centres. For further information, consult the listing under International Development Studies (page 121).

Specialist (Co-operative) Programme in Environmental Science provides the key to understanding and resolving many of the environmental issues that plague our planet. Problems such as diminishing and polluted water supplies, acid rain, lake and coastal erosion, disposal of household, industrial and radioactive wastes are related to an insufficient management of our surface geology and geological processes. The Specialist Co-operative Programme in Environmental Science provides a balanced emphasis on both the earth and biological science aspects of environmental science. For further information, consult the listing under Environmental Science (Scarborough) (page 83) or Physical Sciences (Scarborough) (page 165).

Admission to the Programme

Applicants may apply to the programme directly from secondary school or may apply as transfer students from college or first year university. The timing of work placements is determined by the student's co-operative transfer credit will depend upon the particular university courses the student is applying. Applicants must indicate the special code for this Scarborough Campus programme on the Application For Admission To An Ontario University. Once the University of Toronto is notified of the
Drama

Drama offers both a major and a specialist programme.

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

Drama students may wish to refer to the following:

Specialist Programmes in the Arts

Specialist Programmes in Drama

Supervisor: M.Q. Schonberg

A student is required to complete 12 full-course equivalents in the area of Dramatic Literature and Theatre, and two in related disciplines, as follows:

1. DRAB01Y: An Introduction to the Practical Elements of Theatre
2. DRAB20F: The History of Theatre I: From Classical Antiquity to the Renaissance
3. DRAB21S: The History of Theatre II: From Elizabethan Theatre to the French Revolution
4. DRAB22F: The History of Theatre III: From the French Revolution to the First World War
5. DRAB23S: The History of Theatre IV: Theatre in the Twentieth Century
6. ENG111Y: Varieties of Drama
7. ENG201Y: Modern Drama
8. These full-course equivalent courses are chosen from the following:
   - CLAC06S/VA: Ancient Drama: Comedy
   - DRAB05Y: Ancient Drama: Tragedy
   - DRAB07Y: The Art and Nature of Comedy
   - DRAB09S: Drama, Theatre, and Political Revolution
   - DRAB11S: Theatre in Canada
   - DRAB24S: Introduction to Asian Theatrical Traditions
   - DRAB25S: Women in the Theatre
   - DRAB26S: Science, Power, and Politics
   - DRAB27S: The Art of Dr. Faustus on Stage
   - ENGB10Y: Canadian Drama
   - ENGC31Y: English Drama to 1642
   - ENGC335S: Drama Since 1960
   - ENGD010: Studies in Major Writers
   - ENGD070: Selected Topics
   - FREB51PS: The Classical Age: Comedy

Specialist Programs in the Arts

Supervisor: M.Q. Schonberg

A student is required to complete 12 full-course equivalents, eleven in the area of Drama and Theatre, and two in related disciplines, as follows:

1. DRAB01Y: An Introduction to the Practical Elements of Theatre
2. DRAB20F: The History of Theatre I: From Classical Antiquity to the Renaissance
3. DRAB21S: The History of Theatre II: From Elizabethan Theatre to the French Revolution
4. DRAB22F: The History of Theatre III: From the French Revolution to the First World War
5. DRAB23S: The History of Theatre IV: Theatre in the Twentieth Century
6. ENG111Y: Varieties of Drama
7. ENG201Y: Modern Drama
8. These full-course equivalent courses are chosen from the following:
   - CLAC06S/VA: Ancient Drama: Comedy
   - DRAB05Y: Ancient Drama: Tragedy
   - DRAB07Y: The Art and Nature of Comedy
   - DRAB09S: Drama, Theatre, and Political Revolution
   - DRAB11S: Theatre in Canada
   - DRAB24S: Introduction to Asian Theatrical Traditions
   - DRAB25S: Women in the Theatre
   - DRAB26S: Science, Power, and Politics
   - DRAB27S: The Art of Dr. Faustus on Stage
   - ENGB10Y: Canadian Drama
   - ENGC31Y: English Drama to 1642
   - ENGC335S: Drama Since 1960
   - ENGD010: Studies in Major Writers
   - ENGD070: Selected Topics
   - FREB51PS: The Classical Age: Comedy

Major Programmes in Drama

Supervisor: M.Q. Schonberg

A student must complete seven full-course equivalents in the area of Dramatic Literature and Theatre. The following courses comprise the core of the programme:

1. DRAB01Y: An Introduction to the Practical Elements of Theatre
2. DRAB20F: The History of Theatre I: From Classical Antiquity to the Renaissance
3. DRAB21S: The History of Theatre II: From Elizabethan Theatre to the French Revolution
4. DRAB22F: The History of Theatre III: From the French Revolution to the First World War
5. DRAB23S: The History of Theatre IV: Theatre in the Twentieth Century
6. ENG111Y: Varieties of Drama
7. These full-course equivalent courses are chosen from the following:
   - CLAC06S/VA: Ancient Drama: Comedy
   - DRAB05Y: Ancient Drama: Tragedy
   - DRAB07Y: The Art and Nature of Comedy
   - DRAB09S: Drama, Theatre, and Political Revolution
   - DRAB11S: Theatre in Canada
   - DRAB24S: Introduction to Asian Theatrical Traditions
   - DRAB25S: Women in the Theatre
   - DRAB26S: Science, Power, and Politics
   - DRAB27S: The Art of Dr. Faustus on Stage
   - ENGB10Y: Canadian Drama
   - ENGC31Y: English Drama to 1642
   - ENGC335S: Drama Since 1960
   - ENGD010: Studies in Major Writers
   - ENGD070: Selected Topics
   - FREB51PS: The Classical Age: Comedy
Drama 5

DRA131Y** Individual Studies in Russian Theatre and Drama in Translation
DRA147** Individual Studies in Spanish Theatre and Drama in Translation
DRA01Y* Advanced Workshop: Performance and Directing
DRA01FS Supervised Performance
DRA32Y**DRA34Y**DRA325**
DRA32FS**DRA34FS**
DRA325Y** Supervised Reading

Group B
CLAC07FS Ancient Drama: Comedy
CLAC08FS Ancient Drama: Tragedy
DRA05Y The Art and Nature of Comedy
DRA07Y Drama, Theatre and Political Revolution
DRA24FS Theatre in Canada
DRA29FS Introduction to Asian Theatrical Traditions
DRA25FS Women in the Theatre
DRA27FS Science, Power, and Hell
DRA30FS The Story of Dr. Faustus on Stage

ENG107 Shakespeare
ENG108FS Canadian Drama
ENG123FS English Drama to 1642
ENG255FS Drama Since 1900
ENG10-358FS*** Studies in Major Writers

ENG107-358FS*** Selected Topics
FRE91FS The Classical Age: Comedy
FRE92FS The Classical Age: Tragedy and Drama
FRE93FS French Theatre in the 20th Century
HUM90Y Introduction to the Cinema

** Perequisite: ten full-course equivalents.
*** Course content varies from year to year. Students should check the listings in the Calendar to determine what precise courses may be pertinent to Drama in a given year.

DRA01Y** An Introduction to the Practical Elements of Theatre

Telephone ID #: 04020163

An introductory practical course, concentrating on the non-literate aspects of theatre.

In the workshop the student will study basic acting techniques (identification of voice, movement, script interpretation, building a character), and will also be introduced to such technical skills as lighting, sound, makeup, set construction and painting. In addition, the student will be expected to participate in at least one production per term. Two two-hour workshops per week plus additional time as necessary for rehearsals and/or production meetings, etc. will be required of each of the workshops is essential.

Lectures and tutorials. The text for the course will be History of the Theatre by Oscar Brockett. Other readings will be announced.

Exclusion: (FRE90, DRA254Y, DRA256)
Session: Winter Day
M.G. Schoenberg
Offered 1995/96 and 1996/97

DRA241Y The History of Theatre II: From the Elizabethan Theatre to the French Revolution

Telephone ID #: 04022153
A study of theatre from 1580 to 1789.

The course will concentrate on the study of Elizabethan and Jacobean stage practices, the theatre of the Baroque, Neoclassicism on the European continent, and the beginning of theatre in North America, in the social and political context.

There will be lectures and tutorials. The principal text will be Oscar Brockett, History of the Theatre. Other readings will be announced.

Exclusion: (FRE90, DRA254Y, DRA256)
Session: Winter Day
H. Oldendorf
Offered 1995/96

DRA246F Theatre in Canada

Telephone ID #: 04022433
An examination of the development of professional theatre in Canada from 1945 to the present.

Special attention will be paid to the development of the major theatrical festivals, the regional theatre movement, the rise of alternative theatres, and current theatrical trends. Consideration will be given to the work of specific actors, directors, and designers.

Reading materials will be drawn from several sources and selected dramatic texts will be used to illustrate theatrical developments.

Exclusion: (FRE90, DRA268)
Session: Winter Day
TBA

DRA260F The History of Theatre I: From Classical Antiquity to the Renaissance

Telephone ID #: 04022033
A study of the non-literate aspects of theatre from Classical Greek theatre to the Renaissance.

Areas of concentration will include classical Greek and Roman theatre, Western European Medieval and Renaissance traditions, and the theatre of the Renaissance, including the Dramatic Art Movement.

Acquaintance with representative plays of the various periods will be required. Attention will also be paid to the socio-political milieu of the theatre.

Exclusion: (FRE90, DRA254Y, DRA256)
Session: Winter Day
TBA

DRA265F Women in the Theatre

Telephone ID #: 04022655
The chronicle of theatre history from the perspective of women's experience, not only as practitioners, but also as spectators and subjects of theatre production.

Central to the course will be an inquiry into specific contributions made by women in all areas of theatre, but also an examination of the circumstances which led to the exclusion of women from mainstream theatre activity for many centuries, and of the factors which have often served to marginalize the tradition of female theatrical endeavour. Another focal concern of the course will be the impact of feminism on the theatre.

Exclusion: (DRA300)
Session: Winter Day
TBA

Offered 1995/96
Economics (B.A.)

The Economics curriculum offers a wide variety of theoretical and applied courses. The curriculum provides an excellent background for careers in business, government, and the professions. Many of the courses are intended exclusively for specialists in the discipline but can be of value to students with very diverse interests.

There are certain courses that are central to the curriculum: the introductory courses (ECO202Y or ECO210Y), the initial B-level courses - Price Theory (ECO200Y or ECO210Y) and Macroeconomic Theory and Policy (ECO201Y or ECO211Y), at least one course that provides a different perspective either on contemporary economic theory, or on ways of organizing economic activity - Economic History (ECO214Y, ECO212Y), the Literature of Economics (ECO225F, ECO223F), Comparative Economic Systems (ECO268Y), a student who wants to pursue Economics in depth should consider seriously acquiring a background in Accounting, Statistics, and Computer Science as well as a thorough grounding in Mathematics (especially Calculus, Probability Theory, and Linear Algebra).

In the first year, specialist students in Economics, Economics and Mathematics, Economics and Quantitative Methods, Management and Economics, and Management and Economic Theory should take ECO202Y (the mathematical version of the introductory course). Although students entering the Specialist in Economics, the Specialist in Management and Economics, and the Specialist in Management and Economic Theory will normally take MAT232Y in combination with ECO202Y, these students who are planning careers in Economics are encouraged to replace MAT232Y with MAT232Y (Calculus) and further math courses. Students who choose ECO202Y (the non- mathematical version) may be able to enter those specialist programs once they have completed calculus. Economics Majors and Specialist in Economics and History and in Economics Theory and Political Science do not require calculus, so that students may take ECO202Y in their first year of those specialties.

Many courses in the Social Sciences complement courses in Economics so that students are urged to read a wide and interdisciplinary material, with the help of the Supervisor, in plan their program of study carefully.

Limited Enrolment

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

Admission to programs

1. Direct admission from secondary school

Those admitted directly to the Management and Economic courses must maintain a GPA of 2.0 or higher after completing 8 credits to remain in an economics program.

2. Other students

The Supervisor of Studies makes decisions on programme admission only twice per year, in May and August, based on programme requests received by the Registrar. Only transfer students are considered at other times. Students with more than 10 credits will not normally be admitted to the economics major.

3. Non-programme students

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

Specialist Programme in Economics

Supervisor: Ian Porter

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 GPA including ECO202Y/ECO210Y and MAT232Y/MATA23Y. Students with 7.0 course credits will be considered on the basis of GPA including ECO202Y/ECO210Y and
E Comparative Politics, Developing Countries POLR91, POLS55, POLS96, POLS09, POLS93, POLS94
*The maximum number of Economics and Political Science full-course equivalents that can be counted for the four-year degree is sixteen.

Specialist Programme in Management and Economics
Supervisor: TBA
Registration in this Programme is limited. Selection will be based on all grades including the following prerequisite course: MGMT102, ECO902, and ECO903, and one of MATH125 or MATH129.
Students who have completed more than ten credits will not normally be considered for admission to the Specialist Programme. Please refer to Management.

Specialist Programme in Management and Economics Theory
Supervisor: T.B.A.
Registration in this Programme is limited. Selection will be based on all grades including the following prerequisite course: MGMT102, ECO902 (though ECO903 will be accepted in special cases), and MATH125 or MATH129. Students who have completed more than ten credits will not normally be considered for admission to this Programme. Please refer to Management.

Major Programme in Economics
Supervisor: Ian Parker
NOTE: Registration in this Programme is limited. Please refer to Management.

Economics 69

ECO904Y or ECO908Y
ECO904Y or all 3 of STAB22F and STAB476 and STAC076
ECO905Y or ECO910Y or ECO901Y or ECO911Y or ECO912Y
ECO901Y and ECO910Y
ECO903Y
One FCE in Economics

Specialist Programme in Economics and Mathematics
Supervisor: Ian Parker
NOTE: Registration in this Programme is limited. Please refer to Management.

Economics 68

ECO907Y or ECO910Y or ECO904Y or ECO908Y or ECO911Y or ECO912Y
ECO913Y, ECO914Y
ECO915Y and ECO916Y
ECO917Y
ECO918Y
One FCE in Economics

Specialist Programme in Economics and Scientific Policy
Supervisor: Ian Parker
NOTE: Registration in this Programme is limited. Students must complete a minimum of four courses to be considered for this Programme. Students with 4-6 course credits will be considered on the basis of GPA including ECO907Y/ECO908Y. Students with 7 course credits will be considered on the basis of GPA including ECO907Y/ECO908Y and at least one of ECO910Y/ECO914Y, ECO915Y, ECO916Y. Six full-course equivalents are required in each of the two disciplines. The specific course requirements are listed below. In addition, mention is made of courses in other disciplines that complement the Specialist Programme.

Required courses in Economics: ECO907Y or ECO908Y or ECO910Y or ECO914Y or ECO915Y or ECO916Y
ECO913Y, ECO914Y
ECO915Y and ECO916Y
ECO918Y or ECO922Y
ECO917Y
ECO919Y or STAB476 and STAC076
One full-course equivalent in each of the following fields:
A Canadian Government: POLB51, POLB55, POLC31, POLC51, POLC55, POLC34, POLC35, POLD50, POLD62
B Public Administration and Public Policy: POLB60, POLC60, POLC61, POLC65, POLC66, POLC67, POLC68
C Political Science: POLB80, POLC104, POLC105, POLC106, POLC34, POLC43, POLC44, POLC46
D Comparative Politics, Industrial Economics: POLB60, POLC87, POLC89, POLC97

This Programme is designed for students considering the possibility of graduate work in mathematical economics. All students must complete at least twelve and a half full-course equivalents in Economics, Mathematics, Statistics, Computer Science and Humanities. The specific requirements are as follows: ECO907Y or (MATH127Y) or (MATH129Y)
ECON325 Labour Economics II
Telephone ID: 04332523
This course covers the economics of management hierarchies, contractual relationships, the boundaries of the firm, mergers and vertical integration. Limited enrolment: 60. Exclusion: ECO310. Prerequisite: ECO303 or ECO304.
Session: Winter Day

ECON345 Industrial Organization
Telephone ID: 04334513
The economics of the firm in a market environment. The aim is to study business behaviour and market performance as influenced by concentration, entry barriers, product differentiation, diversification. Research and development, and advertising, will be some limited use of calculus in this course. Limited enrolment: 40. Exclusion: ECO310. Prerequisite: ECO303 or ECO304 or ECO307 or ECO308.
Session: Winter Day

ECON354 Monetary Economics
Telephone ID: 04335433
This course examines monetary theory and institutions focusing on the relationship among money, prices and economic activity. Topics include: money supply definitions and relevance, a detailed examination of the demand for and supply of money, the term structure of interest rates, targets and instruments of monetary policy, the use of rules versus discretionary monetary policy. Limited enrolment: 60. Exclusion: ECO348. Prerequisites: ECO303 or ECO304. Session: Winter Day

ECON365 Labour Economics I
Telephone ID: 04336513
Applications of the tools of microeconomics to various labour market issues. The topics covered will include: fertility and family formation; labour supply; job choice; equilibrium in competitive and non-competitive markets; union and non-union aspects of the labour market; unemployment. Policy applications will include: manpower and maintenance programmes; minimum wages; unemployment insurance benefits; poverty. Limited enrolment: 60. Exclusion: ECO329. Prerequisite: ECO303 or ECO304.
Session: Winter Day

ECON395 Economic Development
Telephone ID: 04339523
An introduction to the processes of growth and development in less developed countries. Prerequisite: ECO100. Session: Winter Day
not all faculty will be available for these courses in any single term.

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


Courses Not Offered in 1965/66

ECOB2Y
European Economic History
Exclusion: ECO23Y or ECO303 or ECO304 or ECO305 or ECO306
Complementary: ECO306 or ECO307 or ECO308 or ECO309 (whichever is not used to satisfy the prerequisite).

ECOGE2F
History of Economics II: Origins of Modern Economics Theory
Exclusion: ECO32Y or Prerequisite: ECO303 or ECO304 or ECO305 or ECO306
Complementary: ECO306 or ECO307 or ECO308 (whichever is not used to satisfy the prerequisite.)

ECOCS7S
Law and Economics
Exclusion: ECO23Y or Prerequisite: ECO303 or ECO304 or ECO305 or ECO306 will be accepted as a prerequisite when ECON273 is taught in the second term of the winter session.

English (BA)

Discipline Representative: J.L. Matus

The study of English encompasses English, Canadian, and American literatures as well as other literatures written in the English language. The curriculum offers a broad range of courses designed to enable students to gain a comprehensive knowledge of a rich literary tradition. In addition, sequences of courses are available (in historical periods, in specific genres, in national literatures, and in particular authors) that allow students to pursue individual interests at greater depth. In all courses, emphasis is placed on close responsive reading, critical thinking, and clarity of expression.

The A-level course introduces all students to the study of English at the university level. The course is designed both for students planning a Specialist or Major Programme in English and for students having a general interest in the subject.

English B10Y and B10Y are required for all students planning a Specialist or Major Programme in English.

Other B-level courses require no prerequisite and are therefore available both to beginning and to more advanced students. C-level courses, as their prerequisites indicate, are designed to build upon previous work in English and presuppose some background in critical skills and some familiarity with the subject matter. D-level courses (which are equivalent to 400-level courses on the St. George Campus) provide opportunities for more sophisticated study and require some independent work on the part of the student. These courses are generally restricted to enrollment and may involve the presentation of seminars.

Students are advised to consult the prerequisites for the C- and D-level courses when planning their individual programmes, and to consult with the Discipline Representative before taking courses on other campuses.

The Specialist programme in English offers as opportunity to develop skills in close responsive reading, critical thinking and clarity of expression. It encompasses the rich tradition of many literatures which use the English language as the medium of expression.

Specialist Programme in English

Supervisor: J.L. Matus (287-7132)

Ten full-course equivalents in English and two additional courses in the Division of Humanities are required. They should be selected as follows:

1. ENGLA1Y Reading Literature: The 20th Century
2. ENGLA2Y Critical Thinking and Writing
3. ENGLA3Y English Literature: Historical Survey
4. ENGLA4Y English Literary Criticism
5. Five additional full-course equivalents in English at the A, B, or C-level, including:
   a) two full-course equivalents in periods before 1800, one of which must be at the C-level (see list A)
   b) two full-course equivalents in periods after 1800, one of which must be at the C-level (see list B)

6. One further full-course equivalent in English at the D-level
7. Two full-course equivalents in other Humanities disciplines.

The following are particularly recommeded:

- ENGLA2Y Greek and Roman Mythology
- ENGLA3Y The Classical Element in English
- ENGLA4Y Ancient Drama: Comedy
- ENGLA5Y Ancient Drama: Tragedy
- ENGLA6Y Ancient Epic: The Oral Tradition
- ENGLA7Y Ancient Epic: The Literacy Tradition
- ENGLA8Y Britain from the Eighteenth Century to the Present
- ENGLA9Y Taur and Stuart England (Prerequisite: One B-level history course)
- ENGLA10Y Prolegomen
- ENGLA11Y Prolegomen II: East Asia and the Middle East
- ENGLA12Y General Linguistics
- ENGLA13Y Philosophy and Art
- ENGLA14Y Philosophy of Literature
- ENGLA15Y Introduction to Women's Studies

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

Major Programme in English

Supervisor: J.L. Matus (287-7132)

Seven full-course equivalents in English are required. They should be selected as follows:

1. ENGLA1Y Reading Literature: The 20th Century
2. ENGLA2Y Critical Thinking and Writing
3. ENGLA3Y English Literature: Historical Survey
4. Three additional full-course equivalents in English at the B, or C-level, one of which must be at the C-level. These three courses must include:
   a) one full-course equivalent in periods before 800 (See List A)
   b) one full-course equivalent in periods after 1800 (See List B)
5. One full-course equivalent in English at the D-level

LIST A: Pro-1800 courses:

- ENGLA1Y Shakespeare
- ENGLA2Y Chaucer
- ENGLA3Y Prose and Poetry of the English Renaissance 1500-1660

ENGLA3Y English Drama to 1662
- ENGLA4Y English Literature of the Early 18th Century
- ENGLA5Y English Literature of the Late 18th Century
- ENGLA6Y Fiction before 1820

LIST B:

Pre-1800 courses:

- ENGLA1Y Canadian Literature
- ENGLA2Y American Literature: An Introduction
- ENGLA3Y Contemporary Literature in English: Africa and the West Indies
- ENGLA4Y Contemporary Literature in English: Australia and India
- ENGLA5Y Canadian Fiction in English
- ENGLA6Y The Canadian Short Story
- ENGLA7Y Canadian Drama
- ENGLA8Y The Short Story
- ENGLA9Y Children's Literature
- ENGLA10Y Major American Authors
- ENGLA11Y The Romantics
- ENGLA12Y Fiction 1832-1900
- ENGLA13Y Modern Drama
- ENGLA14Y Twentieth-Century Poetry
- ENGLA15Y Twentieth-Century Drama Since 1940
- ENGLA16Y The West in American Literature
- ENGLA17Y Myths and History in Canadian Literature

Minor Programme in English

Supervisor: J.L. Matus (287-7132)

Four full-course equivalents in English consisting of ENGLA1Y and any three other full course equivalents in English, one of which must be at the C-level.

ENGLA1Y Reading Literature: The 20th Century

Telephone ID #: 05111163

An introduction to literary and cultural concerns in the twentieth century through a study of selected works written in English, from the beginning of the century to the present day.

Drawing on a range of works by men and women from different nationalities and backgrounds, we explore what is involved in the activities of reading and writing. How does the literature of this century both reflect and help to produce the complex realities of our world? What is the relationship between what we read and how we make sense of ourselves? The study of literature involves an examination of what
ENG301Y1 Critical Thinking and Writing

Telephone ID: 0552502

Through reading poetry, fiction and essays, we explore a variety of different approaches to literary texts and study ways of communicating responses to literature clearly and effectively in writing.

This course encourages students to think about what makes reading enjoyable (satisfying) and to develop their critical responses to literature. It aims also to strengthen abilities in writing about literature. In the first term we concentrate on vocabulary development and grammatical accuracy through various written exercises.

To develop competence and confidence we study the art of essay writing. In the second term we focus on one or two major works of literature, allowing time to practice and expand the writing skills learned in the first term and to consider a variety of critical approaches to the selected texts.

This course is required for Majors and Specialists in English.

Exclusion: ENG301

Prerequisite: ENG301

Session: Winter Day

Course Coordinator: W.J. Howard

Offered 1995/96 and 1996/97

ENG302Y English Literature: Historical Survey

Telephone ID: 055250263

A survey of English literature from the Middle Ages to the twentieth century, in the context of relevant intellectual, aesthetic, social, and political developments. Normally taken in conjunction with ENG301Y1.

This course provides a general introduction to the main periods of English literary history—the Medieval, Renaissance, Restoration, Eighteenth Century, Romantic, Victorian, and Modern periods. Reading will be extensive, involving brief selections from approximately fifty writers. The primary emphasis is on the Norton Anthology of English Literature (Fifth Edition). Vol. 1; 2, more readings will be announced.

Note: This is an introductory course in which the level of advanced students is not too high.

ENG303Y What is Culture? A study of the development and emergence of "culture" as a concept and field of study.

Telephone ID: 055250263

An exploration of the development and emergence of "culture" as a concept and field of study.

In order to develop a perspective on culture, we consider the influence of various historical and cultural events on the development of culture. We focus on the ways in which these events have affected the development of culture.

ENG304F Contemporary Literature in English: Africa and the West Indies

Telephone ID: 05522033

A study of contemporary African and West Indian literature.

Session: Winter Day

A. Thoms

ENG305Y An introduction to children's literature.

Telephone ID: 05522553

An introduction to children's literature. This course will explore the cultural and political backgrounds as well as the historical traditions of the works of the most significant writers. The works of the most significant writers will be emphasized: e.g. Achebe, Soyinka, Harris, Naisbitt, and others.

Session: Winter Day

W.J. Howard

ENG308Y Canadian Fiction in English

Telephone ID: 05522463

A study of Canadian fiction in English from its origins in the eighteenth century, through the search for form and tradition in the nineteenth and early twentieth centuries, to the contemporary period of new exploration and consolidation.

The course examines some of the social, historical, cultural, and political contexts and problems of writing in Canada. This course will explore the cultural and political backgrounds as well as the historical traditions of the works of the most significant writers. The works of the most significant writers will be emphasized: e.g. Achebe, Soyinka, Harris, Naisbitt, Keneally, Stow, White.

Session: Winter Day

W.J. Howard

ENG311Y Varieties of Drama

Telephone ID: 05521163

A study of drama from ancient Greece to the present day.

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

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

Exclusion: DDM100, ENGL222

Session: Winter Day

A. Thoms

ENG312F Shakespeare

Telephone ID: 05521063

A study of six plays by Shakespeare, both as unique works of art and in the larger context of his work as a Renaissance dramatist. A list of texts will be available in ENGL220.

Exclusion: ENGL220

Session: Winter Day

A.J. Paterson

Offered 1995/96
literary tradition that has historically been male dominated. Selections from: Kate Chopin, Elizabeth Cassetta, Tom Morrison, Alice Munro, Sylvia Plath, Christian Rossetti, Mary Shelley, Olive Schreiner, Amy Tan, Mary Wolstonecraft, Alice Walker, Virginia Woolf.

Exclusion: ENGC233

Session: Summer Evening TBA

ENGC207 Creative Writing

TelephoneNumber 1: 05533363

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. Exercises will be assigned which will have special emphasis of technique and form and there will also be discussion of the works of some contemporary writers and writers by writers.

Limited enrollment: 16

Exclusion: (HUMB80), (LITB407).

Prerequisite: Permission of instructor.

A short sample of creative writing should be submitted, normally by August 1. For further information, contact Professor I. L. Mann.

Session: Winter Evening TBA

ENGC222 Prose and Poetry of the English Renaissance, 1500-1600

TelephoneNumber 1: 055333263

The major works of the English Renaissance from the rise of English humanism to the Interregnum.

A study of English Renaissance literature beginning with sixteenth century humanism in continental writers and moves to the courtly love tradition in the poetry of Wyatt, Surrey, Sidney, and Shakespeare, and Spenser's development of the epic. The second half of the course concerns the later Renaissance and the works of Donne, Milton, Jonson, and their contemporaries.

Exclusion: ENGC222

Prerequisite: (ENGC101, ENGC102) ENGC100, ENGC102

Session: Winter Evening J. Kay

ENGC447 Contemporary Fiction

TelephoneNumber 1: 05534163

Recent English-language fiction by contemporary authors from Britain, America, Canada, and elsewhere. Some of the following topics will be investigated: the break with modernism; postmodernism and construction; metafiction; magic realism; rewriting classic texts; postcolonialism; feminism and the novel; the rise of ethnic writing and the fiction of multicultural communities; fiction in the context of consumer culture; New Journalism and other taking over of fiction. Selected stories, novels, and collections of short stories.

The early twentieth century was a period of extraordinary creativity and innovation in fiction, as writers broke away from the conventions of the Victorian novel. The focus of this course will be the development of new kinds of narrative, in part to study the nature of art making, but in part also to consider the philosophical, psychological, and social implications of the way stories are written. Works to be studied will include: James, The Spots of Pointy, Conrad, The Secret Agent, Joyce, Dubliners, Mann, Selected Stories, Woolf, To the Lighthouse, Lawrence, Sons and Lovers, Hemmingway, A Farewell to Arms, Lowry, Under the Volcano, O'Brien, The Love Object.

Students are advised to do some reading in advance.

Exclusion: ENGC232

Prerequisite: (ENGC101, ENGC102) ENGC101, ENGC102

Session: Winter Day A. Thomas

ENGC497 The West in American Literature

TelephoneNumber 1: 05533613

An approach to the concept of "the West" as a myth, a metaphor, and a fantasy fundamental to the vision of settlers of the United States, but challenged by Native North American ideas about life and the world.

We will look, through selected texts, at "the woods" of Hawthorne and Poe, the forests and Indians of Cooper (as well as Mark Twain's parody of his novels), the construction of the American as Cowboy in Owen Wister's The Virginian, and the search for the "one good place" in Hemingway, and the nostalgia for the "true west" in Sara Shepard. By also reading works by Native North American writers--Louise Erdrich, James Welch, and Leslie Marmon Silko--we will be able to study a very different relationship to the "American" landscape. The "West" is also an idea deeply embedded in the popular culture of America. Accordingly, we will also look at "classic" and contemporary Hollywood Westerns.

Session: Winter Evening Pancracius, (ENGC101, ENGC102) ENGC101, ENGC102, (ENGC100, ENGC101, ENGC102)

Session: Winter Day Pancracius, (ENGC101, ENGC102) ENGC101, ENGC102 (ENGC100, ENGC101, ENGC102)

ENGC567 Myth and History in Canadian Fiction

TelephoneNumber 1: 05534263

A detailed study of several Canadian novels in the context provided by myth and history.

The course will examine the use of myth and history in the works of several Canadian fiction writers, and will also consider the role of myth in the Canadian culture and in the Canadian writer's relation to tradition and the past; and the play between past and present. Canadian novels studied may include Hugh MacLennan, Barometer Rising; Sheila Watson, The Double Hook; Margaret Laurence, The Diviners; Robert Kroetsch, Words of My Roaring; The Southernmost; Robertson Davies, Fifth Business; Mordecai Richler, St Urban's Horseman; Michael Ondaatje, In the Skin of a Lion.
ENG2011 Thomas King, Green Grace, Running Water. Additional reading will include The Epic of Gilgamesh, The Odyssey, selections from the Bible, and The Waste Land, and selections from writers such as Sir James Fraser and Northern Pyre.

Prerequisites: (ENG201, ENGA02) ENG201, B26; or one full-course equivalent in English, ENG201.

Session: Winter Day
R. Brown

ENG2001Y English Literary Criticism Telephone ID #: 05549316
A study of the central issues of literary theory and criticism, their importance in English literary history, and their relationship to European thought. What are the major issues and movements in literary theory? How have the questions critics have asked changed over time? The course aims at discussing the assumptions about literature and writing that are reflected in any critical position. Readings will be selected to acquaint students with both current critical debates and the history of theory and criticism. Exclusion: (ENGC39), ENGC46.

Prerequisites: (ENG201, ENG201), ENG201, ENG202 and two further full-course equivalents in English.

Session: Winter Day
J. Kay

ENG2002 George Bernard Shaw Telephone ID #: 05543093
A study of the range of Shaw's dramatic works.

Exclusion: On the comedies, plays to be read include Shaw's Arms and the Man, Heartbreak House and Man and Superman. Some plays by contemporary writers who share the Shawian comic sensibility will also be read, including at least one by Tom Stoppard. Assignments will include a seminar report.

Limited enrolment: 20
Prerequisites: ENG201, ENG202, ENG201, ENG201, two further full-course equivalents in English; or ENG295.

Session: Winter Day
A. Thomas

ENG2003 James Joyce Telephone ID #: 05544253
Richard Ellman reexamined the importance of James Joyce when he said "we are still learning to be his contemporaries." Our primary texts will include Dubliners, A Portrait of the Artist as a Young Man, Ulysses. In addition we will read essays that apply contemporary literary theory to Joyce's fiction in order to align our own various interpretations of Joyce's fiction with the insights we find there. Of special interest to us in our reading of Joyce will be his complex and unacknowledged depictions of such presumably "simple" and "self-evident" structures as identity, gender, power, pleasure, sexuality, history, capitalism, popular culture, imperialism, colonialism, advertising, and what has been labeled "commodity culture" in the 20th century. Always we will be alert to how Joyce outlined, more than fifty years ago, the modern world we struggle to live in and understand today.

Limited enrolment: 20
Prerequisites: (ENGC01, ENGA02) ENG201, ENG202, and three further full-course equivalents in English.

Session: Summer Evening

ENG2012 Alice Munro Telephone ID #: 05545133
A study of five collections of Alice Munro's short fiction: Dance of the Happy Shades; Something I've Been Meaning To Tell You, Who Do You Think You Are?: The Moons of Jupiter; and The Progress of Love. The course will demand close analysis of assigned short stories, as well as bibliographical exercises and reports on critical articles and reviews. Exclusion: On Munro.

Limited enrolment: 20
Prerequisites: ENG201, ENG202, and three further full-course equivalents in English; or any two of ENG207; ENG207; ENG207; or ENG295 (ENGC37).

Session: Winter Evening

ENG2014 Native Writing in North America Telephone ID #: 05546433
This course will attempt to outline the range of Native writing throughout North America. The emphasis of the readings will be on the post-60's reassessment of Native literature and culture. Readings will be drawn from a variety of genres, including fictional, poetry, drama, and autobiography. Students in the course will be encouraged to engage with current issues in multiculturalism: what are the politics and polities of ethnicity? How does any group come to terms with its ethnocentric assumptions? What does it mean to either understand or appropriate another culture? How does literature contribute to a reassessment of national identity? How do we pose questions of literary value and form canons of literatures? Theorists such as Roy Harvey Price, Arnold Krupat, Gayatri Chakravorty Spivak, James Clifford, Clifford Geertz, and Linda Hutcheon will be used to clarify these questions. Native authors to be studied include Edward S. Curtis, Franklin K. Lawton, Louise Erdrich, Tomson Highway, Leslie Marmon Silko, David Daniel Moses, E. Pauline Johnson, James Welch, Thomas King, Paula Gine Allen, Simon J. Ortiz, Linda Hogan, Beatrice Callston, Gerald Vizenor, and others. All the literature we read will be in English, but students should be aware that more than 150 Native American languages can be found in North America.

Limited enrolment: 20
Prerequisites: ENG201, ENG202, and two further full-course equivalents in English; or ENG295, or ENG294.

Session: Winter Day
J. L. Mano

ENG2017 Black Women Writers in America Telephone ID #: 05547753
Henry Louis Gates noted recently that Morrison and other African-American women writers are more widely read by a broader cross-section of the reading public than other African-American writers have ever been. Through a study of selected works by Toni Morrison and her contemporaries, the course explores the rise of the African-American women novelist.

The course will begin by considering a range of critical approaches (feminist, post-colonial, psychoanalytic) to Morrison's work. Topics for discussion will include her relationship to the Civil Rights Movement and black cultural nationalism; her creation of a representational that crosses boundaries established by race, gender, culture and class; the role of history and memory in her work. We will then attempt some comparison of Morrison's work with that of other contemporary African-American women novelists.

Texts will include: Morrison, The Bluest Eye, Song of Solomon, Beloved, Jazz, Alice Walker, Meridian, The Color Purple; Paula Marshall, Protocols for the Widow,
Environmental Science (B.S.c.)

Discipline Representative: B. Greenwood
(287-7326)

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

Three Specialist Programmes are offered in addition to a Major Programme.

The Environmental Science Programme provides a balanced emphasis on both the earth and biological science aspects of environmental science. This reflects the strong interdisciplinary requirement of an integrated approach to the study of the environment where not only must there be a strong understanding of the causes or sources of the degradation of the earth's environment, but a strong understanding of the actual modes of impact on the biological world, both at the cellular and molecular and cell levels and at the ecological system level.

The Environmental Earth Science Programme provides a strong emphasis on the study of earth materials at or near the surface, and the processes - chemical, sedimentary, hydrogeological - that shape and define the environment as we experience it today. While this programme emphasizes the earth science aspects of the problem, it maintains a strong interdisciplinary nature.

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

Specialist (Co-operative) Programme in Environmental Science
Co-ordinator: N. Williams (287-7547)
Supervisor of Studies: T. Price (287-7647)

This Co-operative Programme has a strong basis in environmental discipline, such as Biology, Geology and Chemistry, but emphasizes fundamental sciences such as Physics, Mathematics and Chemistry. The programme is interdisciplinary in nature, and includes courses in other relevant disciplines, such as Environmental Economics and Environmental Law. One of the major thrusts of the programme is the importance of fieldwork and practical experience. Many of the academic courses reflect this, having strong field components; some are entirely in the field.

As an extension of this, the Co-operative Programme placements will assist the necessary practical experience. There are obvious linkages between the Cooperative Environmental Science programme and other Co-operative programmes such as the International Development Studies programme; the linkages between development and environmental issues are already generally acknowledged. The overall purpose of the programme is to provide education and training which will produce highly qualified scientists with good practical and field experience through course work and placement, with a view to employment in research, teaching, consultancy, government agency or regulatory work.

The course requirements for this programme are identical to those of the Specialist Programme in Environmental Science while the Co-operative Programme has a strong basis in environmental discipline, such as Biology, Geology and Chemistry, but emphasizes the earth science aspects of the problem, and it maintains a strong interdisciplinary nature.

The programme in Environmental Chemistry is also offered for those students interested in the mechanisms that lead from our modern way of life to the introduction of pollutants into the atmosphere and water system of the earth.
application, candidates are sent an additional co-op application form to complete. This co-op application form must be received by the University no later than April 30, in order to allow sufficient time for processing. It is suggested that the application form be completed and returned as early as possible, in order to allow time for any necessary changes to be made before the due date.

Note: Each student's copy of the application form must be returned to the University no later than April 30th.

Specialist Programme in Environmental Science

Supervisor: N. Bye (285-7235)

This program is designed to give students a background in the basic principles and applications of environmental science. It is intended for students with an interest in Environmental Science, but who do not wish to specialize in the field. It is appropriate for students pursuing a four-year degree in Environmental Science or to those pursuing a three-year degree in Environmental Science or to those pursuing a four-year degree with more than one area of specialization.

First year:

EES102F Introduction to Environmental Science
EES102P Introduction to Physical Geography

Second year:

EES203C Principles of Sedimentology
EES203P Principles of Stratigraphy

Elective Suggestions: 1 F.C.E.

BIOD12Y Fundamentals of Biology
CHEM195F Environmental Chemistry
STA102F Statistics

Four of the following five courses: the one not taken in year 2 should be taken in year 3

EES301F Principles of Sedimentology and Stratigraphy
EES302F Principles of Geomorphology
EES303F Principles of Climatology
EES304F Principles of Hydrology
EES305F Fundamentals of Soil Science

Elective: 1 F.C.E.

Year III: Environmental Systems

EESC13F Environmental Impact Assessment
EESC203F Remote Sensing and Geographic Information Systems
EESC204F Biogeography and Diversity

Plus whichever of EES 301, 302, 303, 304 and 305 was not taken in year 3, AND 1 F.C.E. from each of the following subsets:

I.

EES306S Field Camp I
EES311S Earth Materials
EES355S Coastal Geomorphology
EES365S Quaternary Environments
EES370F Environmental Geophysics
EES370P Exploration Techniques in Hydrogeology
EES375S Soil Management in Temperate Regions
EES375P Tropical Soil Management and International Development
EES375Q Glacial and Periglacial Geology

II.

EESC305 Environmental Applications of Biotechnology
EESC314F Physical Oceanography and Marine Geology
EESC316F Environmental Biology
EESC317P Field Course in Ecology
EESC318P River Ecology
EESC319P Marine Biology - Habitats and Communities
EESC319F Limnology
EESC321P Plant Population Ecology
EESC322P Advanced Field Course in Ecology

Elective Suggestions: 1 F.C.E.

ANTH101H Ecological Anthropology
ANTH102H Human Adaptability
ANTH106H Evolutionary Biology
CLAS40H Mediterranean Landscapes
HUMN101Y Environment and Human Life

Year IV: Environmental Systems and Science

EESC101F Environmental Economics and Law
EESC102F Research Seminar in Environmental Sciences
EESC103F The Physical Sciences in Contemporary Society

Plus 2 F.C.E.'s from:

BIOD32F Vertebrate Morphogenesis
BIOD32H Microbes in the Environment
BIOD32P Invertebrate Zoology
BIOD32R The Arthropods
BIOD32T Conservation Biology
BIOD32V Environmental Toxicology
BIOD32W Theoretical Foundations of Biology I
BIOD32Y Theoretical Foundations of Biology II
EESD205S Contaminant Hydrogeology
EESD208S Theoretical Geomorphology
EESD209S Sedimentary Models
EESD210S Climate Change
EESD211S Field Camp II
EESC306H Environmental Geology of Metropolitan Toronto
EESC307H Research Project in Environmental Science

EESC308H Hydrology, Physical Processes and Modelling
EESC309H Environmental Hazard Assessment

Elective Suggestions: 1.5 F.C.E.'s

CLAC34S Science and Technology in Ancient Rome
GGCD20F Environmental Philosphies

IHS102F Physical and Ecological Resource Management
POL103F Politics of Canadian Environmental Policy
POL106F Comparative Intergovernmental Relations: Environment and Society

* BIA100Y is acceptable as an alternative to EES104F. Students interested in pursuing more of a biological emphasis within the Environmental Science programme are encouraged to take BIA100Y.

Specialist Programme in Environmental Earth Science

Supervisor: T. Price (285-7237)

This program is designed to give students a good background in the basic principles and applications of Environmental Science. It is intended for students with an interest in Environmental Science, but who do not wish to specialize in the field. It is appropriate for students pursuing a three-year degree in Environmental Science or to those pursuing a four-year degree with more than one area of specialization.

First year:

EESC102F Introduction to Environmental Science
EESC102P Introduction to Physical Geography

Second year:

EESC203F Principles of Sedimentology
EESC203P Principles of Stratigraphy

Elective Suggestions: 1 F.C.E.

BIOD12Y Fundamentals of Biology
CHEM195F Environmental Chemistry
STA102F Statistics

Four of the following five courses: the one not taken in year 2 should be taken in year 3

EES301F Principles of Sedimentology and Stratigraphy
EES302F Principles of Geomorphology
EES303F Principles of Climatology
EES304F Principles of Hydrology
EES305F Fundamentals of Soil Science

Elective: 1 F.C.E.

Year II: Environmental Systems

EESC13F Environmental Impact Assessment
EESC203F Remote Sensing and Geographic Information Systems
EESC204F Biogeography and Diversity

Plus whichever of EES 301, 302, 303, 304 and 305 was not taken in year 3, AND 1 F.C.E. from each of the following subsets:

I.

EES306S Field Camp I
EES311S Earth Materials
EES355S Coastal Geomorphology
EES365S Quaternary Environments
EES370F Environmental Geophysics
EES370P Exploration Techniques in Hydrogeology
EES375S Soil Management in Temperate Regions
EES375P Tropical Soil Management and International Development
EES375Q Glacial and Periglacial Geology

II.

EESC305 Environmental Applications of Biotechnology
EESC314F Physical Oceanography and Marine Geology
EESC316F Environmental Biology
EESC317P Field Course in Ecology
EESC318P River Ecology
EESC319P Marine Biology - Habitats and Communities
EESC319F Limnology
EESC321P Plant Population Ecology
EESC322P Advanced Field Course in Ecology

Elective Suggestions: 1 F.C.E.

ANTH101H Ecological Anthropology
ANTH102H Human Adaptability
ANTH106H Evolutionary Biology
CLAS40H Mediterranean Landscapes
HUMN101Y Environment and Human Life

Year IV: Environmental Systems and Science

EESC101F Environmental Economics and Law
EESC102F Research Seminar in Environmental Sciences
EESC103F The Physical Sciences in Contemporary Society

Plus 2 F.C.E.'s from:

BIOD32F Vertebrate Morphogenesis
BIOD32H Microbes in the Environment
BIOD32P Invertebrate Zoology
BIOD32R The Arthropods
BIOD32T Conservation Biology
BIOD32V Environmental Toxicology
BIOD32W Theoretical Foundations of Biology I
BIOD32Y Theoretical Foundations of Biology II
EESD205S Contaminant Hydrogeology
EESD208S Theoretical Geomorphology
EESD209S Sedimentary Models
EESD210S Climate Change
EESD211S Field Camp II
EESC306H Environmental Geology of Metropolitan Toronto
EESC307H Research Project in Environmental Science

EESC308H Hydrology, Physical Processes and Modelling
EESC309H Environmental Hazard Assessment

Elective Suggestions: 1.5 F.C.E.'s

CLAC34S Science and Technology in Ancient Rome
GGCD20F Environmental Philosophies

IHS102F Physical and Ecological Resource Management
POL103F Politics of Canadian Environmental Policy
POL106F Comparative Intergovernmental Relations: Environment and Society

* BIA100Y is acceptable as an alternative to EES104F. Students interested in pursuing more of a biological emphasis within the Environmental Science programme are encouraged to take BIA100Y.
EES305P Fundamentals of Soil Science

STA322P Statistics

Third year

EES413P Environmental Impact Assessment

EES205P Environmental Economics and Law

Note: Commencing September 1993, Geology and Physical Geography programmes and courses were restructured to form the new Environmental Science Discipline and new Environmental Science Programmes.

EES425F Introduction to Environmental Science

Telephone ID: 36310133

An integration of subject matter and concepts from diverse scientific disciplines to provide a coherent framework for analyses of environmental issues, environmental management and policy development. This course provides an examination of changes in scientific and societal attitudes and the developments which have led to the current critical state of the environment. The processes of human impact on ecosystem functioning and the environmental sustainability of societal patterns are critically analysed in local, regional and global contexts. Critical current issues: evidence of environmental degradation; compatibility of scientific method and regulatory responsibility; specific case histories. Two hours of lectures per week and two hours of practical work every second week. Session: Winter Day T. Price

EES426S Introduction to Physical Geography

Telephone ID: 36310253

The flow of both energy and mass through natural systems is used to explain system characteristics, from the shape of the landscape to the generation of weather. Physical and biological processes forming natural systems are considered at many different levels, from soil erosion at the field level to plate tectonics. The impact of human activity on system processes is surveyed, with particular reference to vegetation change, soil degradation and atmospheric pollution. Two hours of lecture per week and two hours of practical work every second week. Exclusions: GGRA05, GGRA10, GGRA15 Session: Winter Day TBA

EES427F Principles of Sedimentology and Stratigraphy

Telephone ID: 36320133

A study of the composition, structure and origin of the Earth and the physical processes that operate on and in it. In this course the chronological succession of physical and biological events on Earth as revealed in the rock record are highlighted. Understanding geologic processes is essential to finding solutions to many environmental problems. Exclusion: GLIO10, GGRA10, GGRA15 Perquisite: None, but use OAC Mathematics and OAC Chemistry or Biology or Physics are recommended. Session: Winter Day N. Eyles

EES484F Principles of Geomorphology

Telephone ID: 36320253

The physical and chemical processes responsible for the development of regolith at the surface of the Earth and the mechanics of displacement, transport and deposition of mass by rivers, wind, glaciers, water waves, gravitational stresses, etc., which control the evolution of surface morphology. Field excursions and laboratory exercises will allow students to apply theory to natural systems and to understand the dynamics of non-modified geomorphic systems. Two hours of lectures per week and two hours of practical work every second week. Exclusion: GGRA15 Perquisite: EES425F GLIO05 Session: Winter Day B. Greenwood

EES485F Principles of Climatology

Telephone ID: 36320353

An overview of the physical and dynamic nature of meteorology, climatology and related aspects of weather. Major topics include: atmospheric composition, structure of earth's atmosphere, climate, and human induced changes. Two hours of lectures and one hour of practical work per week. Exclusion: GGRA20, GGRA32 (GGRA05) Perquisite: EES425F (GGRA05) or an A-level science course with permission of instructor. Session: Winter Day. W. Gough

EES494F Principles of Hydrology

Telephone ID: 36320433

The water and energy balances are considered at the basin for the measurement of the flow of water through the terrestrial part of the hydrologic cycle, and the measurement of the components of both balances is described. Examinations and optional or experimental studies, and the application of these techniques 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 how water moves through natural systems, the ways in which processes change hydrologic process, and the kinds of modeling used in planning exercises. Two hours of lectures and one hour of practical work per week. Perquisite: EES205F, EES425F, GGRA05, (IDR202, IDR203, IDR205) Exclusions: GGRA38, GGRA39, GGRA20, GGRA26 Session: Winter Day T. Price

EES506F Fundamentals of Soil Science

Telephone ID: 36320533

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 evolution of fundamental soil properties of importance to soil management; an introduction to methods of soil examination in the field, and analysis in the laboratory with basic principles of soil classification. Two hours of lecture, 1 hour laboratory per week. Exclusion: GGRA27, GGRA15 Perquisite: Any A-level course in Environmental Science or IDR202Y Session: Winter Day TBA

EES509S Field Camp I

Telephone ID: 36320633

Designed to familiarize the student with field work in Earth Sciences; many environmental problems can only be assessed by collecting geological and other data in the field. The course can be held in alternate years in Costa Rica (May) or the Rocky Mountains (September). Limited Enrolment 15 Enrolment is limited to students registered in the Specialist Programme in
Environmental Science

Environmental Earth Science. If there is sufficient space available, other students may register with permission of the instructor.
Prerequisites: EES807F and EES808F (EGR206)
Session: Winter Day
N. Eyres, K. Howard

EES816F Introduction to Environmental Geophysics
Telephone ID #: 36321033
A study of the current methodology and instrumentation used for environmental investigations.
In this course, methods of exploring the sub-surface in engineering and environmental studies. Various geophysical techniques in geotechnical, civil and environmental engineering which are increasingly used to map and investigate the impact of environmental conditions on urban development and vice-versa are also examined. Field trips will be taken.
Exclusion: EES3012
Prerequisites: EASA05 or EASA05 or permission of instructor.
Two hours of lectures and two hours of practical work per week.
Session: Winter Day
A. Michajer

EES816F Earth Materials
Telephone ID #: 36321153
An investigation of the origin, physical properties and structure of a wide range of the more common minerals, rocks, soils and other materials encountered in environmental investigations.
Investigative and descriptive techniques will be demonstrated in the laboratory. The principles of stress, strain and shear strength will be illustrated by reference to simple geological structures both in the field and in the laboratory.
Exclusion: EES3007 & EES3008
Prerequisites: EASA05F; EASA05G
Two hours of lectures and two hours of practical work per week.
Session: Winter Day
E. Freeman

EES823F Environmental Economics and Law
Telephone ID #: 36330133
A study of the application of economic analysis to problems of environmental change and natural resource use.
This course will cover market processes in situations where externalities in production and consumption are present and the application of benefit-cost analysis to environmental problems. A brief introduction to issues in environmental law, and the statutory and regulatory framework for environmental management in Ontario.
Prerequisite: Permission of Instructor
Session: Winter Day
R. Falthorpe

EES825F Remote Sensing & Geographic Information Systems
Telephone ID #: 36330153
A study of the fundamentals of GIS and remote sensing including spatial data types, data capture, data input and output formats, georeferencing and coordinate systems, topography, spatial analysis techniques, data output and map production.
The applications of GIS technology as a tool in the management of environmental problems will also be studied. Several case studies and databases will be examined to demonstrate GIS applications in both regional (e.g. waste management in the Metropolitan Toronto region) and site specific applications (e.g. deforestation in equatorial regions, global climate warming, world population growth).
Students will gain extensive hands-on experience using a number of GIS software packages (DRISL, SPANS, Spatial Analysis System, ArcInfo) and hardware devices (workstations, digitizers, plotters) in the GIS teaching lab.
Ten two-hour lectures and two hours of practical work per week.
Prerequisite: Five full-course equivalents in EES courses.
Session: Winter Day
J. Hibbert

EES824F Biogeography and Diversity
Telephone ID #: 36330433
A study of the patterns of distribution of organisms in space and time.
Biogeography forms an integral part of the study of evolution. This course includes the study of the patterns of distribution of organisms (e.g. latitude, vegetation, islands), the concepts of abundance and rarity. Subsequent topics will include the effects of scale on process, pattern, continental drift and plate tectonics, dispersal, endemism, comparison of the biota of continents and islands, phytogeography, adaptation, speciation, climate and the unique role of animals in shaping modern biogeography.
Two one-hour lectures, one three-hour laboratory per week.
Prerequisite: EASA05 or BID105Y
Exclusion: BID206
Session: Winter Day
N. Williams

EES827F Exploration Techniques in Hydrogeology
Telephone ID #: 36330733
A study of hydrogeology and the mechanics of ground water flow.
Particular emphasis in this course will be placed upon practical methods of ground water exploration and assessment. These methods include drilling, surface and borehole geophysics, pumping test analysis and resource evaluation.
Exclusion: EGR206
Prerequisite: EASA05F, MATA25Y
Session: Winter Evening
K. Howard

EESC105 Soil Management in Temperate Regions
Telephone ID #: 36330153
An investigation of soil resources in Canada and western Europe.
Particular emphasis will be placed upon environmental impact and soil degradation. Also to be stressed are the fundamental processes of soil degradation and soil conservation techniques and strategies.
Critical issues in Canada such as nutrient cycling, the management of soil fertility, soil erosion and conservation; soil contamination and acidification; problems of drainage and secondary salinization; the management of Arctic and Alpine soils will also be examined. Regular laboratory projects will be carried out in the Soil Erosion Research Laboratory.
One two-hour lecture and two laboratory per week.
Limited enrolment: 20
Exclusion: GSC227, GSC239
Prerequisite: EESS205F, EESS235
Session: Winter Day
TBA

EESC118 Tropical Soil Management and Land Use
Telephone ID #: 36331153
A study of the salient characteristics of tropical soils and the processes which lead to soil degradation.
Soil management practices and potential conservation techniques and strategies will be examined in the context of tropical soil properties and land use patterns. Nutrient cycling and sustainable cultivation, vegetative and mechanical approaches to soil conservation, soils and agroforestry, soil and water management in arid and semi-arid regions will be examined. One two-hour lecture per week and one two-hour laboratory every second week.
Laboratory projects will be carried out in the Soil Erosion Research Laboratory.
Limited enrolment: 40
Exclusion: GSC227 (GSC240)
Prerequisite: EESS205F, EESS235
R. Bryan, V. Timmer
EESD15 Research Seminar in Environmental Science
Telephone ID #: 36340153
Concepts and methods developed in environmental science will be applied to practical environmental problems, within the framework of individual or group research; a research paper or dissertation will be produced. This course is also designed to encourage interaction between students from disparate streams of environmental science through participation in joint seminars, which will also involve environmental practitioners from the community at large.
Prerequisite: Permission of instructor
Session: Winter Day
Coordinator: N. Eyles

EESD202 Contaminant Hydrogeology
Telephone ID #: 36340225
Natural hydrochemical processes; the use of major ions, minor ions, trace metals and environmental isotope studies 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.
Exclusion: (GGLD01)
Prerequisites: EESC370F and CHMA220Y, or MATB51H4 and CHMB222Y or CHMB211Y
Session: Winter Evening
K. Howard

EESD48 Sedimentary Models
Telephone ID #: 36340455
A study of the principles of sediment transport mechanisms necessary for the interpretation of the physical properties of classic environmental science bodies. A detailed examination of a wide range of modern sedimentary systems to establish analogues for palaeo-environmental interpretations. Lectures will be completed by seminars and occasional field and laboratory work.
Limited Enrolment: 20
Exclusions: (GGLD25) (GGLD24)
Prerequisites: EESS202F (GGR219) and one of EESS101F, EESS103H (GGR226), (GGR226C)
Session: Winter Day
R. Goes

EESS206 Climatic Change
Telephone ID #: 36340633
A study of the nature and complexities of climatic change, using instrumental and proxy data in the context of various theoretical models. Several numerical models (e.g. radiative and energy balance) that have been used to simulate climatic change will be introduced.
Exclusion: (GGR206)
Prerequisites: EESS203 (GGR203)
Session: Winter Day
W. Gough

EESS207 Field Camp II
Telephone ID #: 36340723
The third year field camp is designed to familiarize the student with several geological settings and modern environments. The camp is held in alternate years in Costa Rica (May) or the Rocky Mountains (September).
Limited Enrolment: 15
Enrolment is limited to students registered in the Specialist Programme in Environmental Earth Science. If there is sufficient space available, other students may register with permission of the instructor.
Prerequisites: EESS101S, GLG232F
Session: Winter Day
N. Eyles, K. Howard

EESD94/104/114 Research Project in Environmental Science
Students will gain experience in the design, implementation, and reporting of a substantial research project involving laboratory and/or fieldwork. Existing faculty research allows a broad range of possible topics. The course should be undertaken after the end of the 3rd Year, subject to faculty availability. Faculty permission and supervision is required; open only to those students who have either completed or are undertaking specialist courses in the area of intended study. Students having a B+ or higher standing may be eligible for summer financial support from research projects. Exclusions: GLG110, GLG111, GLG220, GLG221, GLG222
Session: Winter Day
Coordinator: B. Greenwood

Courses Not Offered 1996-97

EESD103 Theoretical Geomorphology
Prerequisites: EESS201F (GGR219) and one of EESS205H (GGR225), GGR227 or GGR228; a background in science will be useful

EESD105 Environmental Geology of Metropolitan Toronto
Prerequisites: EESC112F, EESS105

EESD113 Hydrology: Physical Processes and Modelling Exclusion: (GGR228Y) (GGR227)
Prerequisites: Either EESS404F (GGR238) or GGR209

EESD115 Environmental Hazard Assessment
Prerequisites: EESS106F or permission of instructor

Fine Art

Discipline Representative:
Fine Art History, L. Carrier (287-7171)
Fine Art Studio: J. Hogreave (287-7173)
Fine Art is the field which deals with objects of all sorts that have cultural and aesthetic importance. Because the range of these works is virtually without boundaries, widely divergent approaches come into play in studying them. Increasingly, however, these approaches emphasize the ways that works of art reflect major social and ideological conditions in their culture.
At Scarborough College, Fine Art includes both Art History and Studio, two separate but interrelated fields.

Fine Art History

Because art is perceived through the eyes and other senses as well as through the intellect, art history courses use slides, films, videos, and direct viewing of art works in galleries and museums and in the cities. Although some of the courses reflect a traditional structuring of art history by time periods, instructors often use new methodologies to explain the work within these periods.
Art history courses at the A-level and B-level are normally open to all students. In addition to the practice in critical thinking and writing provided by all humanities disciplines, these courses offer basic information about painting, sculpture, architecture, and other arts, and a chance to improve perceptual awareness.

*Major Programme in Fine Art History

Supervisor: R. Siebeloff (287-7169)

Students must complete seven full-course equivalents as follows:

1. One and one-half full-course equivalents at the A level
2. Four full-course equivalents at the B level, including at least one course in art outside the Western world, and courses representing at least three geographical areas of the Western world.
3. One and one-half full-course equivalents in art history at the C level (or at the 300/400 level on the St. George campus).

FARADY Introduction to Art
Telephone ID: 06210165

An introduction to the basic concepts and methods used in the study of art at the college.

The course emphasizes the cultural, economic, social, and historical factors affecting the making of art, as well as changing interpretative uses. This course is recommended to all students.

Exclusions: FAH100

Session: Winter Day

Offered: 1996/97 and 1997/98

FARADYI Medieval Art
Telephone ID: 06211153

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 art during the early Christian, Mediterranean world, how these traditions were influenced by classical, Byzantine, Muslim and pagan forms; how they developed in early modern art; and their impact on the Renaissance. Texts to be considered in class.

Exclusion: FAH100

Session: Winter Day

Offered: 1996/97 and 1997/98

FARADYII Carolingian and Romanesque Art
Telephone ID: 06210133

A survey of the art and architecture of Europe from 800 to 1150, considered in light of the varied artistic developments of the contemporary Mediterranean world. The course will consider the major artistic and architectural monuments of Europe from the Carolingian renaissance to the Renaissance of the twelfth century. Works will be considered in their geographical context and in relation to the art and architecture of the later Roman Empire, Byzantium, and Islam, and to the art of the Islamic period. The importance of monasticism and pilgrimage will also be discussed.


Exclusion: FAH131, 132

Offered: 1996/97

FARADYIII French Painting in the Netherlands
Telephone ID: 06222933

A study of painting and drawing in the Dutch Republic in the so-called Golden Age from 1650 to 1770. The subject includes portraiture, landscape and still life. Work done in these categories forms the basis of a great deal of later Western painting. The approach to the material will be problem-oriented, rather than chronological. FAR111 is a continuation of this course.


Exclusion: FAH130R, FARADYIV Session: Winter Day

Offered: 1996/97 or 1997/98

FARADYIV French Impressionism
Telephone ID: 06224353

A study of impressionism as a turning point in Western art.

The rapidly expanding city of Paris, with its great boulevards and avenues, was a magnet for artists from all over the world in the second half of the nineteenth century. Using the economic and artistic resources of this international centre, the Impressionists, however, turned primarily to landscape as a source of inspiration. The members of the group in particular Musset, Passaro, Moriset, Renoir and Monet, will be discussed in detail. Text: John Rewald, The History of Impressionism, New York: Museum of Modern Art, various editions (soft cover).

Exclusion: FAH135

Session: Winter Day

Offered: 1996/97 or 1997/98

FARADYV African Art
Telephone ID: 06223633

Uses and characteristics of art within the tremendously varied context of first, colonial, and post-colonial cultures in North America.

This investigation explores selected cultural "moments" from the last three hundred years.

Recommended: Courses in Canadian, Mexican and/or U.S. history useful but not required.

Session: Winter Day

Offered: 1996/97 or 1997/98

FARADYVI Modern Art in North American Cultures
Telephone ID: 06223633

A study of the varied and contradictory context of first, colonial, and post-colonial cultures in North America.

This investigation explores selected cultural "moments" from the last three hundred years.

Recommended: Courses in Canadian, Mexican and/or U.S. history useful but not required.

Session: Winter Day

Offered: 1996/97 or 1997/98

FARADYVII The Art of Southeast Asia
Telephone ID: 06220645

Art of the Southeast Asian Peninsula including Cambodia and Thailand as well as Java and Bali in Indonesia.

The course will concentrate on two of the most important groups of monuments in Southeast Asia, namely the Borobudur Temple in central Java (5th to 9th AD) and the group of Khmer monuments at Angkor in Cambodia (9th to 13th century). The influence of Buddhism will be a major reference point in the discussion of these monuments. Textbooks: Philip Rawson, The Art of Southeast Asia, London: Thames and Hudson, Reprint 1980 soft cover.

Exclusion: FARADYVIII

Session: Winter Day

Offered: 1996/97 or 1997/98

FARADYVIII Art Around the World
Telephone ID: 06231453

A study of cultural exchanges at the turn of the century among such cities as New York, Barcelona, St. Petersburg, Vienna and Paris.

The course focuses on the innovations of teaching "open art" in various forms, as well as on the design of furniture, books, art glass, jewelry and fashion, and other luxury products of the period.

Exclusion: Use full-course equivalent at the B-level or permission of the instructor.

Session: Winter Day

Offered: 1996/97 or 1997/98

FARACT Seminar in Twentieth-Century Art
Telephone ID: 06221833

Special topics in twentieth-century painting and sculpture. The subject will change from time to time. After introductory sessions outlining the subject and ways of getting information about it,
Fine Art Studio

The Major Programme in Fine Art Studio
Supervisor: J. Hoogenraats (287.7173)

Students must complete six and one half full-course equivalents as follows:
1. FAR249F
2. FAR1A35
3. FAR270F
4. FAR274F
5. FAR275F
6. Two and one half additional full-course equivalents, one of which must be at the D-level*

*Students should check these courses for prerequisites.

A recommended approach to our programmes would be:

MAJOR PROGRAMME

First Year:
FAR249F Foundation Studies in Studio
FAR2A1F(S) Art After 1750

Second Year:
FAR270F Drawing I
FAR275F Painting I
FAR2B3F Introduction to Lithography
FAR274S Drawing II

Third Year:
FAR2C9F/FAR2C3F or FAR2C7P
FAR2D3F/FAR2D3S or FAR2D0S

SPECIALIST PROGRAMME

First Year:
FAR2A0Y Foundation Studies in Studio
FAR2A1S Art After 1750

Second Year:
FAR270F Drawing I
FAR275F Painting I
FAR2B2F Introduction to Lithography
FAR2B3S Intermediate Lithography
FAR2B4S Drawing II

Third Year:
FAR2C9F/FAR2C3F or FAR2C7P
FAR2C7T* or FAR2B2Y* or another course at the B-level or C-level

Fourth Year:
Two full-course equivalents at the D-level
*These courses should be checked for availability due to cycling.

The Fine Art Studio curriculum is built around the idea that art is a means of expressing and understanding the human condition. It does not offer courses in commercial or advertising art.

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

Our A-level studio course in Foundation Studies in Studio is a course, offering practice and discussion, basic media and concepts. The special classes are FAR2A1F(S) but why is it Art? They must be taken before advancing to B-level courses which will introduce the student to other media, processes, and a deeper investigation of the ideas behind art. C-level and D-level courses allow supervised and independent work in any area the student wishes to investigate.

The Major and Specialist Programmes require an Art History course, FAR2A1S. In addition, we strongly urge our students to take other Art History courses dealing with modern and contemporary art.

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

FAR2A0Y Foundation Studies in Studio

Telephones ID #: 06219063

An introduction to various processes of art-making: drawing, painting, sculpture, printmaking, and other creative processes. This course is intended to prepare the student for further study in Studio. A basic knowledge of graphic media will be built through the personal exploration of a number of the processes, concepts, and media. Students will discover, through an assigned work and discussions, the many ways contemporary art is made. They will be expected to explore a number of these processes through assignments.

Limited enrollment: 20 per section

Exclusions: FAR2A10

Corequisite: FAR2A0Y

Prerequisite: an OAC in Visual Art or permission of instructor following a positive evaluation of a portfolio.

Session: Winter 1996/77

Staff

Offered 1996/97 and 1997/98
FARAB91F But Why is it Art?

Telephone ID: 06227533

An introduction to the basic ideas behind recent art, how they developed, and why they change.

I don't know anything about art but I know what I like." Why do we feel uncomfortable when confronted with contemporary art? What is supposed to be thinking and why? This course aims to develop a broad basic knowledge of the critical positions that led to major changes in recent art.

Session: Winter Day
J. Hoogstraten
Offered 1996/97 and 1997/98

FARAB70F Drawing I

Telephone ID: 06227533

An introduction to the various approaches to drawing, including working from the figure and working with ideas.

Using the model and assignments, this course develops the student's ability to investigate the potentials inherent in drawing. The student must complete a number of finished drawings, working both from the model and from assigned problems. 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.

Limited enrolment: 20
Exclusion: FAS238
Prerequisite: FARA07Y
Session: Winter Day
D. Holman
Offered 1996/97 and 1997/98

FARAB70F Drawing II

Telephone ID: 06227533

A continuation of FARAB70 with an increased emphasis on the student's ability to expand her/his personal understanding of the meaning of drawing.

Through the use of the model and assigned projects, the student will be required to explore a number of visual possibilities dealing with both objects and ideas. This course requires the student to work from the figure as well as work from concepts assigned to the class. These completed drawings will be discussed in class and will, with a complete sketchbook, make up the final portfolio for grading.

Limited enrolment: 20
Exclusion: FAS238
Prerequisite: FARAB70
Session: Winter Day
TBA
Offered 1996/97 and 1997/98

FARAB10Y Painting I

Telephone ID: 06227533

An investigation of the possibilities of painting with an emphasis on the rich potential for expression of both personal and collective imagery.

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

Work in the first term will be based on assignments. Work in the second term will consist of images and concepts developed by the individual student. Discussions of work will be held regularly on both an individual and group level. Students will be required to give an oral presentation on a contemporary artist and write two papers on contemporary art.

Limited enrolment: 20
Exclusion: FAS230
Prerequisite: FARA00
Session: Winter Day
J. Hoogstraten
Offered 1996/97 and 1997/98

FARAB10Y Introduction to Lithography

Telephone ID: 06228333

An introduction to black and white stone lithography including a detailed investigation of materials and techniques.

The course will include demonstrations and lectures covering the technical aspects of the medium. Students will be required to pass a test on procedures and explore the medium by drawing, processing and printing several of their own lithographs. Discussions of work will be held regularly on both an individual and group level.

Limited enrolment: 10
Prerequisite: FARA00 or permission of instructor
Session: Winter Day
D. Holman
Offered 1996/97 and 1997/98

FARAB10X Intermediate Lithography

Telephone ID: 06228333

A continuation of FARAB10X, with emphasis on multi-colour printing.

The course explores the technical aspects of working with coloured inks. Students will be expected to work out visual ideas by drawing, processing, and printing a number of their own lithographs. Individual and group critiques will be held to discuss assigned work.

Limited enrolment: 10
Prerequisite: FARAB10X and permission of instructor
Session: Winter Day
D. Holman
Offered 1996/97 and 1997/98

FARABM9Y Introduction to Intaglio

Telephone ID: 06228333

An exploration of printmaking with a focus on etching.

This course will involve the student in the various methods of printmaking associated with etching, including engraving and dry point. Both lectures and demonstrations will introduce the student to the basic concepts and processes associated with intaglio printing. Students will draw and process zinc plates and produce several editions in black and white. Group and individual critiques will be held to discuss these prints. Students will also be required to view and assess historical and contemporary prints.

Limited enrolment: 15
Prerequisite: FARAB07 or permission of instructor
Exclusion: (FARAB4Y)
A. Braeunen
Session: Winter Day
Not offered in 1996/97

FARAB70Y Intermediate Intaglio

Telephone ID: 06228333

A continuation of FARABM9Y, focusing on colour and multi-plate printing.

The course will explore the technical aspects of working with coloured inks, and will require students to produce several editions in colour. Individual and group critiques will be held to discuss assigned work. Students will also be required to view and discuss prints by past and contemporary artists and to visit exhibitions and print shops.

Limited enrolment: 15
Prerequisite: FARABM9 or permission of instructor
Exclusion: (FARAB84Y)(FARC85)
A. Braeunen
Session: Winter Day
Not offered in 1996/97

FARAB10Y Sculpture Concepts

Telephone ID: 06228333

An exploration of sculpture in the 20th century, with an emphasis on contemporary art.

This course familiarizes the student with recent concepts in sculpture, primarily the shift from Modernism to Postmodernism, and the reasons for this shift. Current ways of exploring 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 dealing with assigned problems. Texts include Rousell E. Kraus's Parerga in Modern Sculpture.

Limited enrolment: 15
Prerequisite: FARAB07 or permission of instructor
Session: Winter Day
J. Hoogstraten
Not offered in 1996/97

FARAB10Y Supervised Studies in Studio

An opportunity for the student to create a number of personal statements working in an area of her/his own choice.

These courses may be taken in any area including printmaking, drawing, painting, sculpture, photography or mixed media if the student, through the portfolio and proposal, shows the ability to proceed to the intermediate level. Students will provide their chosen instructor with a written proposal within the first week of classes. The proposal specifies the intended area of investigation, the amount of work necessary to fulfill it, and a justification of the students' position. They will also meet at appointed times to discuss work-in-progress. Content, method and evaluation will be planned in co-operation with the instructor.

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

Limited enrolment: 3
Exclusion: FARA07
Prerequisite: FARAB74, FARAB75, FARAB83, FARAB84 or permission of instructor based on the written proposal and portfolio
Session: Winter Day
Staff
Offered 1996/97 and 1997/98
French Canada, France and the francophone world. Those students who have significant "immersion" or "enriched" high school experience should consult the faculty member responsible for FREN 101 or FREN 101-05 concerning the appropriate language practice course for their purposes. Students without OAC French or equivalent are urged to obtain credit for FREN 101. Once FREN 101 (or its equivalent) is completed, students intending to continue their French studies may choose courses from a variety of areas: these are described below. Please consult the Programme of Study and the Department of French for more detailed advice about course selection and for information about our Specialist and Major Programmes. Students are advised not to register in a St. George Campus FREN course without prior consultation with the Supervisor of Study about possible exclusions.

Areas of study in French include:

a) Practical language studies
   i) For general purposes: A10, B10, C05
   These courses must be taken in their proper sequence. Normally, a student may not take an A level French course at the same time as, or after, a B level French course.
   ii) For special purposes:
       translation: B08, C09, C18
       pronunciation: B48
       business: B18, C18

b) Literature
   Courses in literature, of France, French Canada and the francophone world, cover a range of periods and genres. Lower level studies may be taken in each of the Programmes offered by the Discipline.

c) Linguistics
   Courses in linguistics may be descriptive as in B25 and C09, structural as in C42 (France), and C43 (Canada) or both practical and descriptive as in B48.

Students interested in more comprehensive studies in linguistics are advised to consult the language under Linguistics, LNA401 and B09 are of particular relevance to French studies.

4) Civilisation
   Courses in the civilization and culture of French Canada, France, and other francophone countries cover all periods and provide opportunities to intensively understand the settings within which the literature and the language of these communities have developed. Relevant courses include B22, B23, B27, and B28. Only one full-course equivalent in the area of civilization may be counted as part of the requirements for each of the Specialist and Major Programmes.

The College’s "Study Elsewhere Programme" offers ideal opportunities for French students to fulfill some of their programme requirements while studying French elsewhere. For example, the University of Toronto sponsors a programme at Laval (Quebec). If interested, please consult the Supervisor of Study Elsewhere. For further information about the Study Elsewhere Programmes and Letters of Permission refer to Study at other Universities in this calendar.

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

Specialist Programme in French supervision: C. Droste

Students should complete twelve full-course equivalents, including the core courses as specified below (items 1-4) and two others (see item 5) as follows:

1. The sequence FREA10Y, FREA10Y, and one full-course equivalent from the following, or their equivalents:
2. A full-course equivalent from the following: FRES20Y, FRES20Y, FCS100H, FCS100H, FRES10Y.
3. Year full-course equivalents in French Literature and French Canadian Literature, one of which should deal with a period prior to 1800 and one with a period after 1800.
4. Two further full-course equivalents in French (see exclusions listed below).
French 101

5 Two full-course equivalents outside French but from related areas of study, to be agreed upon in consultation with the supervisor.

6 Of the courses chosen in French (items 1-4), four full-course equivalents must be at C- or D-level (or from the 300 and 400 series courses on the St. George campus). Both the sequence FREN101-COS and supervised reading may count toward this requirement.

7 Normally no more than one full-course equivalent in the area of supervised reading may be credited for requirements for the Specialist Programme.

It is recommended that students intending to specialize in French take FREN105 early in their programme of studies.

The following may not count toward a Specialist Programme:

1 any A-level French course, with the exception of FREN101 and FREN105;

2 FREN117, FREN118, FREN212, FREN390, FREN411, FREN418.

Specialist Programme: Education of Teachers in French

Co-ordinator: F. Magister

This four-year specialist programme is designed to prepare future teachers of French at all levels in the school system: primary/junior, junior/intermediate and intermediate/senior. It includes both academic courses in French and other subjects and practicum placements in elementary or secondary schools in years 3 and 4.

The programme is designed and offered jointly by the Division of Humanities, Scarborough College, and the Faculty of Education, University of Toronto, in order to meet the needs of teachers of French throughout the school system. It provides a comprehensive education for future teachers of French, one which emphasizes both content and methodology.

Students will be admitted to the programme on the basis of their overall performance in first year, their performance in FREN courses, and an interview. Students who successfully complete this programme of studies and who meet the admission requirements of the Faculty of Education will be admitted to the University of Toronto's Faculty of Education. Up to 20 students will be selected for this programme each year.

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

A. Ten full-course equivalents in French as follows:
1 Three full-course equivalents consisting of: FREN101, FREN105, and one full-course equivalent (normally one half-course in written French and one in oral French) from the sequence FREN101-COS (except where substitution of other French courses is permitted for students with special proficiency in the French language).
2 Two full-course equivalents selected from the following: FREN215, FREN217, FREN241F, FREN241S
3 One full-course equivalent selected from the following: either FREN230F, FREN232F, FREN235S, FREN238S
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 (FREN101Y can fulfill this requirement); one half-course in French literature from other parts of the French-speaking world excluding France and Canada.
5 FREN111H and FREN111S. FREN111H must be taken in second or third year. (all of these courses are described in detail below.)

B. Ten further full-course equivalents: Students are advised to choose courses to suit the teaching programme and the teaching subjects they are interested in. Information and advice will be available through the Program Coordinator at Scarborough and through the Faculty of Education.

The following are recommended courses for the FEUT B.Ed. Programme:

- a half-course in educational psychology
- a half-course in language acquisition
- a half-course to develop computer literacy

Practicum requirement

All practicum requirements are to be completed 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 FREN111 and FREN117. Scarborough College, in association with the Faculty of Education, will ensure that these practicum placements in local elementary and secondary schools.

Major Programme in French Language and Literature

Supervisor: C. Evans

Students should complete seven full-course equivalents, including:

1 FREN101, FREN105, except where substitution of other French courses is permitted for students with special proficiency in the French language.
2 One full-course equivalent from the following courses: FREN215S, FREN215Y, FREN217F, FREN217Y, FREN241F, FREN241S, FREN241Y, FREN246F, FREN246S, FREN246Y
3 Four further full-course equivalents in French, of which three must be in the areas of French and French Canadian literature.
4 Students may include in their Major Programme a maximum of one supervised reading course.

It is recommended that students intending to pursue a Major in French Language and Literature take FREN105 early in their programme of studies.

The following may not count toward a Major Programme:

1 any A-level French course, with the exception of FREN101 and FREN105;

2 FREN117, FREN118, FREN212, FREN390, FREN411, FREN418.

Note: Students intending to pursue their studies in French at the graduate level are advised that only the Specialist Programme qualifies them for admission to the Graduate Department of French at this University.

Minor Programme in French

Supervisor: C. Evans

Students should complete four full-course equivalents, including:

1 FREN101Y
2 FREN105Y
3 Two further full-course equivalents in French courses at least one of which must be at the C-level, excluding FREN215, FREN217.

Joint Specialist Programme in Management and Language

See Management

FREN101Y Introductory French II

Telephone ID: #6611663

Spoken and written French studies for students who have completed Grade 11 French or equivalent.

Four class hours per week are devoted to the study of written and spoken French. This course prepares students to enter FREN101Y. Regular class attendance and participation are essential.

Prerequisites: Grade 11 French or FSL100 for FREN101Y and 102F, or (FREN101Y or FREN101) or equivalent.

Exclusion: OAC 13 French or equivalent.

Summer: Winter Day

Claude Evans

FREN101Y Language Practice I

Telephone ID: #6611063

Reinforcement and development of the language skills—understanding, reading, writing, and speaking—necessary for higher-level courses.

The course consists of a grammar review with written and oral exercises, reading and discussion of a variety of texts representing different francophone cultures and whatever exercises class and instructor
may choose to devote. 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 2-level courses in the French discipline at Scarborough College except FREN84 and FREN90.

For students planning to specialize in French, FREN450 is recommended as a companion course.

Exclusion: (FREN84), native or near-native proficiency in French; FSL160, FSL182, FSL187

Prerequisite: Grade 13 4U or Grade 13 (FREN102) or equivalent.

Session: Winter Day

L. Desantresse and Staff

Offered 1996/97 and 1997/98

FREN450 Introduction to Literature in French: Telephone ID #: 06615063

A study of representative works from major periods and areas of the literature of the Francophone world.

FREN451 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 analyse literature and to develop their essay-writing skills in French. This course is recommended both for students intending to major or specialize in French as a useful background for more advanced studies and for those students interested in enhancing or retaining their reading, writing, and speaking skills in French.

The class will meet for three hours each week for section and discussion conducted in French.

Exclusion: FREN515

Prerequisite: Grade 13 4U or in French.

Session: Winter Day

C. Dejoux

Offered 1996/97 and 1997/98

FREN400(50) Practical Translation: Telephone ID #: 06620833

Translation practice from French to English and English to French.

Texts from fields such as literature, business, politics, law, science and technology, set, and advertising will be translated, analyzed, and discussed in terms of typology of language and style of expression. Class time is devoted to increasing the students' proficiency, based on the many types of differences between French and English.

Exclusion: FREN470, FREN480, FREN481

Prerequisite: FREN100 (FREN80) or equivalent.

Session: Winter Day

S. Müller

Offered 1996/97 and 1997/98

FREN410 Language Practice II: Telephone ID #: 06621063

A continuation of FREN10.

This course is concerned with the development of fluency, accuracy of expression, and style, through the study of grammar, composition, oral practice, readings. Course work can be supplemented by computer-based language programs. Audio and video tapes are available in the Resource Room.

Enrollment in each section is limited to 25.

Exclusion: FREN104

Prerequisite: FREN100 (FREN80) or equivalent.

Session: Winter Day

F. Maguen and Staff

Offered 1996/97 and 1997/98

FREN110 French Language Learning in the School System: Telephone ID #: 06621143

This course is offered by the Faculty of Education in cooperation with the Division of Humanities, Scarborough College, and is intended for students considering a career in the teaching of a second language. The course will involve a series of seminars as well as preparation for practical work in the Elementary and Secondary Schools. Students are limited to students already admitted to the Education system in French Programme. This course must be taken in second or third year.

Prerequisite: FREN100 (FREN80) or equivalent.

Session: Winter Day

A. Gagnon

Offered 1996/97 and 1997/98

FREN275 Introduction to French Linguistics: Telephone ID #: 06622553

A study of the linguistic structure of French and of linguistic theories from the beginning of the twentieth century to the present time.

Topics such as the following will be covered: sound patterns and word formation in French; social and regional variations. Students are expected to make short class presentations and write one major paper.

Exclusion: FREN272

Prerequisite: FREN100 (FREN80) or equivalent.

Session: Winter Day

C. Evans

Offered 1996/97

May be offered 1997/98

FREN275 French Linguistics: Telephone ID #: 06622553

A study of a variety of literary texts from the sixteenth century to the present day, excluding France and Canada.

Prerequisites: FREN100 (FREN80) or equivalent.

Corequisite: FREN100 or FREN90.

Session: Winter Day

F. Maguen

Not offered 1996/97

May be offered 1997/98
FREN649 Theoretical and Practical Phonetics
Telephone ID: 06532483
A study of modern French pronunciation.
This course will comprise the following: general principles of French phonetics, phonetic readings, phonetic transcription, corrective pronunciation, the study of the relationship between spelling and pronunciation, and recordings by students themselves. Basic textbook: Required: A. Dumoulin, Savoir Dire: Cours de Phonétique et de Prononciation. Limited enrollment per section: 20.
Not normally open to native speakers of French. Individual cases should be discussed with the instructor.
Exclusions: FREN277
Prerequisites: FREN10 (FREN806) or equivalent.
Session: Winter Day
C. Evans
Offered 1996/97 and 1997/98

FREN650 Introduction to 19th-Century French Literature I
Telephone ID: 06525633
An analysis of Romanticism in 19th-century French literature with attention to its major writers.
Introductory lectures will be devoted to exploring the origins of French Romanticism, the spread of Romanticism in Europe, as well as events and social changes which contributed to the formation of the Romantic Movement. Works of fiction, drama and poetry by prominent authors from the first half of the 19th century will be studied. Class discussions will be conducted as seminar-discussions in French, supplemented by some lectures.
Exclusions: FREN250, FREN251, FREN253
Prerequisite: FREN10 (FREN806) or equivalent.
Session: Winter Day
C. Bertrand-Beauvais
Not offered 1996/97
May be offered 1997/98

FREN651 Understanding Quebec and French Canada
Telephone ID: 06520923
An attempt to explain contemporary French Canadian issues to English-speaking Canada.
Attention will focus on social, cultural, and political questions in post-1960 French Canada, but we will also examine the impact of historical factors on today's issues. Materials for the course consist of documents (in print and on film) and samples of literature, art, and popular culture throughout music, cinema. The course is offered in English and requires no prior knowledge of French.
May not be counted toward a Major or Specialist degree in French.
Exclusions: FREN203, UNIV120
Session: Winter Day
L. Mignault
Offered 1996/97

FREN652 Advanced Written French I
Telephone ID: 06530331
The purpose of this course is to improve students' ability to write effectively and accurately in French.
Using texts written by native French speakers as models and productions of students for the development of problem-solving strategies, students familiarize themselves with the range of sentence structures and improve their choice of vocabulary (particularly verbs) in order to express their thoughts with more precision, conciseness, and in a more stylish manner. Composition assignments focus on description of places and persons and on narration of events.
Exclusions: FREN132
Prerequisite: FREN10 or equivalent.
Session: Winter Day
L. Mignault
Offered 1996/97 and 1997/98

FREN653 Advanced Written French II
Telephone ID: 06530253
A continuation of the work initiated in FREN652 with regard to style, with specific emphases placed on formal correspondence and essay/report writing.
Using models produced by native speakers, students seek to familiarize themselves with the styles appropriate for each type of writing.
Exclusions: None
Prerequisite: FREN652 or permission of instructor.
Session: Winter Day
L. Mignault
Offered 1996/97 and 1997/98

FREN654 Oral Communication for General Purposes
Telephone ID: 06530433
A course designed for students who have already developed an ability to communicate orally in French and wish to improve their degree of competence and sophistication particularly for the purpose of public address.
The focus is on comprehension of schematic documents and a clarity of expression, correct delivery, ability to speak from identity notes and to improvise. Publicity, media reporting and mock trial situations are techniques used to practice the development of these skills.
Exclusions: FREN133
Prerequisite: Permission of instructor or FREN17
Session: Winter Day
L. Mignault
Offered 1996/97 and 1997/98

FREN655 Oral Communication for Specific Purposes
Telephone ID: 06530553
A course for students who are preparing to use oral French for specific job-related purposes: e.g., journalism and subjects related to various fields of the social and political sciences.
The focus is on comprehension of authentic documents and on clarity of expression, correct delivery, ability to speak from outline notes and to improvise. Publicity, media reporting and mock trial situations are techniques used to practice the development of these skills.
Exclusions: None
Prerequisite: FREN17 or permission of instructor.
Session: Winter Day
L. Mignault
Offered 1996/97 and 1997/98

FREN656 Teaching French as a Second Language
Telephone ID: 06531333
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 methods and approaches, and the development of teaching materials.
Theoretical and practical sessions are conducted in French. Limited enrollment: 25
Exclusions: FREN488
Prerequisite or Corequisite: One full-course from the sequence FREN651, 652 or 653.
Session: Winter Day
C. Bertrand-Beauvais
Not offered 1996/97
Offered 1997/98

FREN658 Translation for Business and Professional Purposes
Telephone ID: 06531853
A course of translation from French to English and from English to French, students will have the opportunity to widen their knowledge of the vocabulary and structure particular to the language of business as well as to such fields as legal services, social work, health care, industrial relations, insurance, and software.
Courses Not Offered in 1969/70
FRE3372: The Society and Culture of French Canada I
FRE3375: The Society and Culture of French Canada II
FRE3380: The History of French Canada I
FRE3385: The History of French Canada II
FRE3385F: The Classical Age: Comedy
FRE3390F: The Classical Age: Tragedy and Drama
FRE3400F: The 20th Century French Novel I: 1900-1940
FRE3415: The 20th Century French Novel II: 1940 to the Present
FRE3435: French Women Writers
FRE3480Y: Comparative Stylistics
FRE3422F: Introduction to Medieval French Language and Literature
CINE305F: French Theatre in the 20th Century
CINE407F: General History of the French Language
CINE335F: The French Novel in the 15th and 16th Centuries
CINE335F: The 19th Century French Novel
CINE409F: Special Topic in 20th Century French

Specialist Programme in Geography (FRA820)

The requirements for this Programme are as follows:

1. GGRA307S and EASA302S
2. STABE12E or Equivalent* CINE407Y
3. At least three full-course equivalents in Geography at the 2nd or 3rd level which may be selected from disciplines other than Geography to be agreed upon in consultation with the Supervisor.

*Courses shown in parentheses are courses which are not offered but which may be substituted for the purpose of this rule.
110 Geography

political powers of the property industry, of
good business, and community based
organisations. Throughout, emphasis will
be placed on the ways in which
the geography of the cities and local
government have shaped, and been shaped
by, urban political activity. The course will
employ urban political literature published
in North America and Britain.
Exclusion: GGR239, GGR339
Prerequisite: GGR059
Session: Winter Day
K. England

GGR239 Problems in Modern Agricultural
Land Use
Telephone ID #: 0692593
Examination of the land use problems created by
rapid changes in modern agriculture.
Emphasis will be placed on the impact of the
capitalist penetration of agriculture on the
environmental, economic and social
conditions of farming in both developed
and less developed countries and regions. One
two-hour seminar each week plus individual
consultation.
Prerequisite: GGR010 and GGR117, or
IDS010 and IDS02.
Session: Winter Day
M. Bunce

GGR215 Development and Planning of
Metropolitan Regions
Telephone ID #: 06933153
An advanced analysis of the recent growth of
metropolitan regions, its causes, efficient
urban scale, social goals and planning,
policy issues, as well as the tools,
rules and roles of public planning
geography. Course examines insights gained
from contemporary empirical research. Three
hours of lecture per week.
Prerequisite: GGR211 (or equivalent) and
one of GGR080, GGR106 or ECO207
Session: Winter Day
TRA

GGR222F The Greater Toronto Area
Telephone ID #: 0693333
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 Great Toronto Area will
be compared with other rapidly changing
urban regions in North America and
elsewhere.
Prerequisite: GGR059 and GGR113
Session: Winter Day
E.C. Reijns

GGR216F Current Topics in Human
Geography
Telephone ID#: 0693413
Examination and discussion of current
issues, with particular emphasis on recent developments in concepts and methods. Topics
will vary from year to year. Seminar format
with active student participation. Two
hours each week. Limited enrollment: 30
Exclusion: EEC31
Prerequisite: GGR114 and one level full-
course equivalent in Human Geography
Session: Winter Day
K. MacDonald

GGR207Y Supervised Research
A research project under the supervision of
a member of faculty. Topics may be
suggested by students or faculty, but in
either case must be identified and approved
by the intended supervisor in time to allow
for possible field work in the summer prior
to formal registration in the course.
Frequent discussions with the supervisor are
expected. Research may be based on
library or archival investigations, field studies,
laboratory experiments, the analysis of
census or other published data, or some
combination of these. Evaluation will be
based on 1) an extended proposal or
progress report submitted on or before
October 31, 20 per cent of final grade; 2)
complete draft of the final report
submitted on or before February 28, value
20 per cent of final grade; 3) a written report
or dissertation of professional quality in its
presentation, submitted on or before March
31, value 60 per cent of final grade. The
field and site in human geography will
be selected by at least two members of faculty and the student may be asked to defend it as an
oral defense.
Students are advised that they must
obtain approval from an appropriate
instructor before registering for this course.
Exclusion: GGR201
Prerequisite: At least one first-year
full-course equivalent in geography
Session: Winter Day
Staff

GGR202S Environmental Philosophy
Telephone ID #: 0690284
A critical review of different attitudes and
approaches to environments, with special
attention to their assumptions, implications. Issues discussed will include the
meaning of preservation, conservation,
maintenance and sustainable development;
the forms of technological control of the
environment; environmental ethics; deep
ecology; environmental concerns versus
social concern; global environmental
management.
Exclusion: GGR212
Prerequisite: Any 10 full-course equivalents
including at least one of GGR010,
GGR117, IDS010, IDS02.
Session: Winter Day
K. MacDonald

GGR206F Issues in Rural Development
Telephone ID #: 0694083
An examination of the special problems of
rural areas in an urbanizing world and
associated development strategies.
Particular attention will be paid to the
underlying causes of rural poverty and
disadvantage, to the role of rural
economies in national development, and to the
basic theories of rural development.
Exclusion: GGR220
Prerequisite: 10 full-course equivalents and
GGR219 or IDS101 and IDS02.
Session: Winter Day
K. MacDonald

Courses Not Offered in 1995-96
GGR227F Location and Spatial
Development
Exclusion: GGR220 (GGR227)
Prerequisite: ECOA02
Urban Transportation Policy
Analysis
Exclusion: GGR224
Prerequisite: GGR203 or
GGR204 or EOR204 or GGR206 or
GGR207
Quantitative Research in Geography
Prerequisite: University half-
course in data analysis
GGR349 The Greater Toronto Area
Prerequisite: GGR211
Physical Geography courses are now listed
in EES.

Geology

Please refer to the Environmental Science
section of the Calendar for courses.
Please refer to the Physical Sciences section of
the Calendar for the following programmes:

Specialist Programme in Environmental
Science
Specialist Programme in Environmental
Earth Science
Specialist (Co-operative) Programmes in
Environmental Science
Major Programme in Environmental Science

German

(B.A.)

Discipline Representative: H. Oehlendorf
(287-7136)
The Major Programme in German Language
has been withdrawn.
Every effort will be made to allow students
who registered in this programme by
September 1994 to complete it at this
campus.
The Minor Programme in German Language
has been withdrawn.
Every effort will be made to allow students
who registered in this programme by
September 1994 to complete it at this
campus.
Any student who wishes to take a course or
courses in German in 1995-96 is encouraged to
see Prof. H. Oehlendorf to discuss
arrangements.

GGR2010 The Last Hundred Years
Telephone ID #: 0690313
An introduction to the most pertinent
aspects of Germany's recent history and
culture beginning with the end of WW1 and
taking into account the effects of Nazism,
WWII, and the division of Germany. The
course also attempts to understand the
forces and pressures which brought about
the unification of Germany. In addition to the
material provided through lectures and
text book readings, there will be readings
and discussions of relevant contemporary
literature and films.
The course is taught in English.
Exclusion: GGR20495
Session: Winter Day
H. Oehlendorf
GERC009 German in Commerce and Management
GERC013 History of the German Language
GERC035 Pre-requisite: OCR German or Grade 13 German or GER09 and GER10

Greek
Courses in Classical Greek and Modern Greek are no longer offered at the Scarborough Campus.

Stamnos should consult the Faculty of Arts and Science Calendar for information on courses offered on the St. George campus.

Greek and Roman History
Courses with the rubric on GRLH are no longer offered at Scarborough College. Students will find a selection of courses on the Greek and Roman world listed under Classical Studies.

History
(B.A.)
Discipline Representative: A. N. Sheps (287-1123)
The study of history is intended to enhance our understanding of human society by examining the experiences of particular people and their societies in the past. Its findings depend upon the precise evaluation of specific evidence. History's concerns and goals are humanity, its methods draw from all forms of scholarly endeavour. History courses, therefore, can play a part in a number of interdisciplinary programmes and can serve as an adjunct to courses in politics, philosophy, literature, economics, and sociology. History can also be usefully combined with language study.

The History curriculum combines a variety of approaches and teaching in order to satisfy a number of purposes. History is both a general introduction to the study of history at the university level, and the preparation for further studies in European history. HIS102 is a general interest course. A series of survey courses (HIS102-00) provides a comprehensive foundation of knowledge in their particular areas.

Minor Programme in History
Supervisor: W.M. Dick (287-7144)

1. Number of Courses
   Students must complete the full-course equivalents in History. These ten must include HIS101Y and five upper-level full-course equivalents (3.0 level courses on the Scarborough Campus, 300/400-level courses on the St. George Campus). At least one of the five must be a 400-level course. In addition, students must complete two full-course equivalents in disciplines other than History. Students are encouraged to follow a sequence of language courses in fulfillment of this requirement.

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

3. Areas of Study
   Students are also required to take courses in at least three different areas as indicated in the course descriptions. Among the five upper-level full-course equivalents at least two courses must be taken within one area (one and one-half full-course equivalents may meet this requirement).

Major Programme in History
Supervisor: W.M. Dick (287-7144)

1. Number of Courses
   Students must complete seven full-course equivalents in History. These seven must include HIS101Y and three upper level courses (3.0 level courses on the Scarborough Campus, 300/400-level courses on the St. George Campus).

2. Pre-1815 Courses
   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 different areas as indicated in the course descriptions.

Minor Programme in History
Supervisor: W.M. Dick (287-7144)

Students must complete four full courses or the equivalent in History, of which at least one full course (or two half courses) must be at the C- and/or D-level.

Minor: Students are advised to consult the prerequisites for C-level and D-level courses when planning their individual programs.

HIS101Y The European World: An Introduction to History
Supervisor: W.M. Dick (287-7144)

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

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

Exclusion: HIS105, HIS109

0.5 Prereq: credit

European Area

Session: Winter Day

J. Pearl and T.L.A

HIS101Y Britain from the Eighteenth Century to the Present

Supervisor: W.M. Dick (287-7144)

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

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

Exclusion: HIS239

British Area

Session: Winter Day

J. Pearl and T.L.A

0.5 Prereq: credit
An examination of the Maritime provinces and Newfoundland from the first European contacts to Confederation in each province. Subjects to be investigated include: native peoples and the impact of European contact; French regime and the development of a distinctive Acadian people; the dispersal of the Acadians; British settlement; responses to the American Revolution; the Loyalist impact; colonial economies and social structure; literacy and intellectual development; struggles for responsible government, and its eventual loss in Newfoundland; religious and ethnic tension; fishermen’s movements in Newfoundland; the coming of Confederation. One two-hour lecture per week, plus tutorials. Written work will include two research papers.

Exclusion: HSC346, HSC468
Prerequisite: HSC304
0.5 Pre-1815 credit
Canadian Area
Session: Winter Day
I. R. Robertson
Offered 1996/97

HSC489 Black Canadian History, 1606-1919
Telephone ID #: 07534853
An examination of the history and presence of people of African descent from their earliest known arrival in Canada to the end of World War I, placing the black Canadian historical experience within the context of Canadian history.
Topics will include black immigration, slavery in New France, British North America and Canada, the impact of American slavery, Canadian anti-slavery movements, and Caribbean immigration, the growth and development of Canada’s black communities, and their religious, educational, and political experiences and institutions.
Exclusion: HSC349
Canadian Area
Session: Winter Evening
TRA

HSC495 Canada Between the World Wars
Telephone ID #: 07534853
An intensive examination of the leading themes in Canadian, political, economic, social, and cultural history in the 1920s and 1930s.
Two consecutive hours of lectures and one hour of tutorial per week. Topics will include the impact of World War I, the rise of Mackenzie King, the development of Canadian autonomy, social and economic trends in the 1920s, the Great Depression of the 1930s, the situation of labour, the political upheavals of the era, and the problem of external relations as war approached again.
Prerequisite: HSC804
Canadian Area
Session: Winter Day
I. R. Robertson
Offered 1996/97

HSC496 Popular Culture in Early Modern Europe
Telephone ID #: 07534853
An examination of mentalities and society in Europe from the fifteenth to the eighteenth century. This course will explore many areas of popular society, examining how people lived, and especially how they believed in. We will look at popular religions, folklore, and witchcraft, in order to observe the interaction of the social views of different social strata. Two hours of lecture and one tutorial per week.
Exclusions: HSC181, HSC191
Prerequisite: HSC201
0.5 Pre-1815 credit
European Area
Session: Winter Day, Summer Evening
J. L. Pearl

HIS405 The Making of Modern Society
Telephone ID #: 07541563
A seminar in the international history of "ordinary people" from the late eighteenth century to the early twentieth century.
The course discusses how policies, populations, structure, and international processes and institutions affected ordinary people, and how governments and "governing classes" responded to pressures from below.
The course provides an opportunity for students to examine, on a comparative basis, knowledge gained in other courses.
Two-hour seminar. Limited enrolment: 15.
Exclusions: HSC115, HSC110
Prerequisite: HIS101 or two other courses in post-1815 history, either European or North American.
American/Canadian/European Areas
Session: Winter Day
W. M. Dick

HIS405 Society and Politics in the United States, 1770-1860
Telephone ID #: 07543353
An examination of the major social and political movements and forces in the early republic.
Topics will include Jeffersonianism, Hamiltonianism, Jacksonianism, social reform, anti-slavery, women’s movements, immigration, and the development of economic, territorial, and cultural nationalism. As well as champions of the early republic will be discussed.
Limited enrolment: 15
Prerequisite: HIS180
American Area
Session: Winter Day
A. N. Shep

HIS425 Selected Topics in Canadian Women’s History
Telephone ID #: 07546463
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 post-World War Two era.
The course will highlight the changing positions of women in Canadian society, the relations between men and women and among women from different class, ethnic/social, 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, and the law, sexuality and crime, middle-class women’s roles in religion, reform, and politics, working class and radical women, and immigrants and minority women.
Limited enrolment: 15
Prerequisite: Any course in Canadian History or HIS141 or HIS143
Canadian Area
Session: Winter Evening
TRA

HIS478Y The Russian intelligentsia
Telephone ID #: 07547863
A seminar on the origins, beliefs, role, and personality of the intelligentsia in Russia during the nineteenth and early twentieth centuries.
The historical importance of the Russian intelligentsia is unparalleled in the history of any other country. Not a class, but a major intellectual, social, and political force, the intelligentsia embraced the great thinkers of the Russian right and left from Dostoevsky to Lenin. The bulk of the course will consist of a detailed examination, through the writings of some of the leading intelligentsia, of intelligentsia ideas and personalities. The list of the intelligentsia in the Soviet Union and the 20th-century connotations of the word will also be explored.
Limited enrolment: 20
Exclusion: (HSC78)
Prerequisite: HIS307 or RUS168
Russian Area
Session: Winter Day
E. W. Dowler

History courses in Classical Studies (see Classical Studies for full descriptions of courses offered in 1995/96); all of these is CLA course pre-requisites and can be used to fulfill History Program requirements.

CLAS415 Freedom in the Making of Western Culture
Prerequisite: CLA101Y or HIS101Y
J. B. Carter

CLAS415Y Army and Empire in the Roman World
Prerequisite: CLA101Y or HIS101Y
J. H. Corbett

CLAS415F Women, Family and Household in Ancient Rome
Prerequisite: CLA101Y
M. E. Irwin

CLAS415F Women, Family and Household in Ancient Rome
Prerequisite: CLA101Y
M. E. Irwin
in the programme, students are encouraged to look beyond it to other world cultures. The course structure outlined below is a framework; it is for the student, in consultation with the supervisor, to work out an appropriate content.

 Nine full-course equivalents are required, as follows:

 1. HUMA01Y or HUMA02Y
 2. PHIL101Y
 3. HISTS01Y
 4. One full-course equivalent in the Arts: DRA, FAS, MUS
 5. One full-course equivalent from courses in language, literature and linguistics in consultation with the Supervisor of Studies.
 6. One full-course equivalent from a Division or Divisions outside Humanities

 Seven two- and one-half full-course equivalents in Humanities subjects, at least two of which must be at C- or D-level focusing on one area or theme. Choice of courses must be approved by the Supervisor.

 HUMC01Y
 NOTES:
 a) A course taken to satisfy one area requirement may not be used to satisfy another area requirement.
 b) A course in MAT or AST may be used to replace one of the requirements 2, 3, 4, or 5 above.

 Specialist Programme in the Humanities

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

 HUMD01Y
 Telephone ID #: 0780163

 Twenty books of central importance in Western civilization. A comprehensive examination will be given at the completion of each subset of ten books. There is a one-hour tutorial for each book. The examination will assess the student's ability to relate the books in his/her own way, rather than to remember minute aspects of plot and character. At weekly informal sessions guest lecturers will present aspects of each work through lectures or other media. Full Terms: The Bible (Seleucid); Homer, The Odyssey; Sophocles, Oedipus Rex and Antigone.

 Humanities
 Discipline Representative: W.C. Graham (287-7149)

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

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

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

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

 Please note that this programme will be replaced by another interdisciplinary programme in the 1997/87 session. Students should consult the Supervisor of Studies about their course selections.

 College Programme in the Humanities
 Supervisor: W.C. Graham (287-7149)

 This programme offers what is often called a Liberal Arts education. It aims to help students develop their critical skills and to introduce them in a range of different intellectual approaches, so that they may use these tools in the study of some of the cultural achievements of humankind. Though European culture plays a large role in this programme, students are encouraged to look beyond it to other world cultures. The course structure outlined below is a framework; it is for the student, in consultation with the supervisor, to work out an appropriate content.
HUM492F \textit{Modern German Prose: Six Full-course equivalents in the programme, one of which must be ENG3927 or WST811}

HUM495S \textit{The Spanish Civil War: Past to Fiction}

International Development Studies (B.A./B.Sc.)

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

Director: T.B.A.

Co-ordinator: J. Maxwell (287-7113) Supervisors of Students: B. Horton (287-7358)

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

- development economics and social and political change in developing countries
- international relations
- environmental sciences, especially the management of natural resources in developing countries
- the geography, culture, language and history of the area in which they are interested.

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

Graduates receive a four-year B.A. or B.Sc. with specialist certificates in International Development Studies.
Eligibility for Work Placement

To compete for work placements a student must:

- have completed at least fifteen full-course equivalents including at least 10 from the core programme (Sections A and advanced options (Section B), and two full courses from the regional and language options.
- after the term students must complete as much of the core programme of and language studies as possible. The core programme contains three courses specially designed for International Development students: EIDS04Y International Development Studies, Political Economy; EIDS02S International Development Studies: Physical and Ecological Resource Management, and EIDS04SJ Project Management. Students must choose their regional and language option (Section C) so 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 programme science courses each academic year prior to placement. In choosing courses students must pay careful attention to the prerequisites for higher level courses. Some courses in the programme are offered on other campuses of the university. Please note that course offerings on all the campuses will not be finalized until after this Calendar has been printed. CDS/TS WITH SUPERVISOR OF STUDIES FOR COURSE AVAILABILITY.
- be registered as a full-time student during study term.

All students must complete:
- a common core programme (at least nine full-course equivalents) in resource management science, development anthro, Alternatives in economics and politics (Section A, below).
- an advanced option (at least three full-course equivalents) in either the social science or environmental studies (Section B, below).
- a regional language and culture option (Section C, below).
- EIDS04Y, an advanced seminar related to their work placement experience.
- other elective courses (Section D, below).

**Notes:**
- 1. Each course may be counted only once in satisfying work placement and programme requirements.
- 2. It is the student's individual responsibility to ensure that he/she has completed the correct courses to make them eligible for the work term and to ensure that he/she has correctly completed programme and degree requirements for graduation.

In the fall two years of study students must complete as much of the core programme and language studies as possible. The core programme contains three courses specially designed for International Development students: EIDS04Y International Development Studies, Political Economy; EIDS02S International Development Studies: Physical and Ecological Resource Management, and EIDS04SJ Project Management. Students must choose their regional and language option (Section C) so 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 programme science courses each academic year prior to placement. In choosing courses students must pay careful attention to the prerequisites for higher level courses. Some courses in the programme are offered on other campuses of the university. Please note that course offerings on all the campuses will not be finalized until after this Calendar has been printed. CDS/TS WITH SUPERVISOR OF STUDIES FOR COURSE AVAILABILITY.

Each student's programme requires the annual approval of the Supervisor of Studies. In addition, all course changes must be approved by the Supervisor of Studies.

The curriculum requirements are as follows:

- Twenty full-course equivalents including:
  - All courses must be selected from the following:
    - the social science or environmental studies (Section B, below)
    - a regional language and culture option (Section C, below)
- EIDS04Y, an advanced seminar related to their work placement experience.
- other elective courses (Section D, below)
EDS056 Field Camp I - Costa Rica
EDS033 Remote Sensing and Geographic Information Systems
EDS045 Biogeography and Diversity
EDS015 Hydrology: Physical Processes and Modelling
EDS065 Hillslope Geomorphology
EDS066 Climatic Change
*FOR455H Advanced Forest Ecology
*FOR456H Forest Soils II
*GGR281H Archeological Interpretation
*GGR355H Biogeography
*GGR353H Problems in Biogeography
*GGR351H Methods of Environmental Impact Assessment
*GGR312H Remote Sensing of Environment
HUMB01Y Environmental & Human Life I

One half-course in Statistics

IDS059S Ethics of Development

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 substitude non-language regional courses. Students must obtain approval of their choice from the Supervisor of Studies.

D Required:
IDS01Y International Development: Study: Advanced Seminar

and any five other full-course equivalents which satisfy the degree requirements.

In addition to the courses listed, students should be sure of the following recommended courses:

MGT302Y Financial Accounting
ECC013Y International Economics: Finance
ECC013PS International Economics: Trade Theory
*ECC032Y International Economics
*GGR334H Water Resource Management
*JPF400Y The Political Economy of International Development

Students should also be aware of certain courses at other universities which may, with the approval of the Supervisor of Studies and the agreement of the host university, be taken for program credit.

Major Programme in International Development Studies

Supervision: This dimension and diversity of problems facing developing countries have involved many academic disciplines. At the Scarborough Campus the Major Programme in Development Studies is based primarily on existing courses taught by faculty members actively involved in development problems. In organizing the Programme an attempt has been made to provide a core of fundamental knowledge which can be applied in Third World countries. Students may then select additional courses from a broad range of relevant courses at the Scarborough and St. George Campuses which will allow more specialized thematic or regional concentration. Students enrolling in this Programme are strongly advised to combine it with a major program in a related discipline. The Programme is designed both for students with a broad general interest in developing countries or those with some interest in pursuing a career in development studies. Students in the latter category should seriously consider the more intensive Co-operative Programme in International Development Studies.

Students must complete:
*EDS01Y Political Economy of International Development (POL010Y). Politics of the Third World may be substituted for EDS01Y. Students hoping to transfer to the Co-op Programme in International Development Studies should take EDS01Y as Politics will not be accepted as an appropriate prerequisite.

*EDS029PS Development Studies: Theoretical and Methodological Resource Management

They must also complete at least two full-course equivalents from the following:
(Courses marked with an asterisk (*) have prerequisites.)

*ANT01Y Social and Cultural Anthropology
*ANTS21F Complex Societies: Anthropological Perspectives on Environment
*BIO14Y Environmental Biology
*ECC014Y Ecological Change
*ECC027S Development Policy
*EES055F Introduction to Soil Science
*ECC011S Soil Management in Tropical Regions

(IDCO55Y Ethics of Development
POL037Y International Relations
POL047Y Politics and Society in Latin America
SOC017P Social Change in the Third World

An additional three or four full-course equivalents should be selected from the following:
(Courses not selected as the three core courses in the group above may be included.)

*ANT03Y Ecological Anthropology
*ANT03PS The Americas: An Anthropological Perspective
*ANT035F African Cultures and Societies I Survey
*ANT037PS Comparative Slavery
*ANT039Y Cultures of the Middle East and the Islamic World
*ANT046S African Cultures and Societies II: Case Studies
*ANT041Y The Anthropology of Women

*ANT029PS Economic Anthropology
*ANT029PS Political Anthropology

*ANT029S Quantitative Methods in Anthropology

*ANT038Y Fieldwork in Social and Cultural Anthropology
*ANT034Y Medical Anthropology: Illness and Healing in Cultural Perspective

*ANT029S Medical Anthropology: Biological and Demographic Perspective

*ANT036F The Anthropology of Food: Human Needs

*ANT036S The Anthropology of Food: Consuming Passions

*BIO112Y Fundamentals of Ecology

*BIO026S Ecology of Arid Regions

*ECC011Y Introduction to Economics: A Mathematical Approach

*ECC020Y Introduction to Economics

*ECO020Y Basic Economics

ECO030Y Basic Economics

ECO040Y Price Theory

ECO060Y Price Theory: A Mathematical Approach

ECC070Y Macroeconomic Theory and Policy

ECC080Y Macroeconomic Theory and Policy: A Mathematical Approach

*ECC0106S Quantitative Methods in Management

Notes:
The Major Programme in International Development Studies requires a minimum of eight full-course equivalents from the courses listed above, together with appropriate prerequisites. These normally involve A-level prerequisites in each discipline selected. It is possible to complete the Programme within three years, as shown in Examples 1 below.

Example 1 (three-year degree)

First Year:
IDS01Y, EDS029PS, ECO012Y or ECO012Y, EES102S, SOC001Y
Second Year:
EDC09Y, ESS015F, ESS015S, ANT029Y, POL067Y
Third Year:
ECC026S, ECO070Y, SOC017Y, POL087Y, POL087F, POL087S

However, students are strongly advised to register in a four-year degree which requires a Major (or Specialist) in a discipline as well as a Major in International Development Studies. In Example 2 a Major in Economics would be combined along with a Major in International Development Studies.

Example 2 (four-year degree)

First Year:
ECO012Y or ECO012Y, POL005Y (POLA005Y, SOC017Y, ANT029Y, EES102S)
Second Year:
EDC09Y, ESS015F, ESS015S, ANT029Y, POL087Y
Third Year:
ANT055, BIO048F, ECO026S, ECO027S, POL087S, POL087F
Fourth Year:
ANT029Y, ANT038F plus ANT029S, POL097Y, POL097F, POL097S

*Extreme care should be taken with this example to ensure that the student has the appropriate prerequisites for the courses designated. Additional courses are required if a 'Major' or 'Specialist' is taken in International Development Studies.
development including the policies and practices of major international institutions, national governments, and international NGOs. Case studies will be used 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. 

Prerequisites: Both EID301Y and EID302S, or ANTR20Y, or PHIL101FS or PHIL305S

Session: Winter Day

**Italian**

Discipline Representative: D. McAliff (287-7168)

The Major Programme in Italian has been withdrawn.

Every effort will be made to allow students who registered in this programme by September 1994 to complete it at this campus.

The Minor Programme in Italian has been withdrawn.

Every effort will be made to allow students who registered in this programme by September 1994 to complete it at this campus.

Any student who wishes to take a course or courses in Italian in 1995/96 is encouraged to see the Supervisor of Studies, Prof. D. McAliff, to discuss arrangements.

**ITA40Y Intermediate Conversation**

Telephone ID #: 08630163

An advanced course in conversation for those students with sufficient knowledge of Italian.

This course offers the opportunity to improve oral and aural skills in Italian. Attention will be given to idioms and special constructions in readings or in class discussions focusing on Italian culture and civilization. Students will be expected to prepare topics of common interest for discussion in class by doing background reading on selected topics and by preparing the specialized vocabulary of those topics. At least one oral report and two class assignments will be required.

Session: Winter Day

**ITA40Y Language Practice**

Telephone ID #: 08630163

An advanced language course focusing on complex problems of Italian grammar.

This course is designed to give students an opportunity to improve their knowledge of written and oral Italian at an advanced level. Specific points of grammar, syntax, and style will be discussed and exemplified with drills and exercises. Students will be asked to write short compositions. A selection of passages by modern Italian authors will provide the necessary material.
for stylistic analysis, summaries, and paraphrases.

Exclusions: ITA350, ITA351, ITA352
Prerequisite: ITAB01 or ITAB11
Session: Winter Day
ITB
ITAC225 Introduction to Modern and Contemporary Literature

Telephone ID #: 08632353
An introduction to literary movements, masterpieces, and authors from the eighteenth century to contemporary times. Selections from the works of influential novelists, poets, and dramatists will be examined in relation to the different linguistic and cultural backgrounds from which they sprang, and to the major modern themes of the individual in society. Texts include works by Goethe, Mazzini, Leopardi, Verga, D'Annunzio, Pascoli, Pavese, and Calvino.

This course will be conducted in Italian and will be a combination of lectures and discussions. Exclusion: ITAB22; ITA120, ITA226
Prerequisite: ITA301 or ITA301
Session: Winter Day
ITB
ITAC25F Survey of Italian Literature from the Middle Ages to the Renaissance

Telephone ID #: 08632353
An introduction to the main literary movements, masterpieces, and authors from the beginning of Italian literature to the end of the seventeenth century.

This course is intended to give the student a knowledge of the early development of Italian literature in its historical context as well as to develop the student's ability to read the early literary language of Italy. The passages to be read and discussed will include selections from "Delitto Nel Nudo," Dante's Divine Comedy, Petrarch's Canzoniere, Boccoli's Dacitteroni, Polidoro's Stanz. Machiavelli's Prince, Ariosto's Orlando Furioso, and Tasso's Gerusalemme Liberata. Lectures and discussion in Italian. A one hour tutorial will be offered for those who need additional help with the Italian language.

Exclusion: ITAB23
Prerequisite: ITA301 or ITA301
Session: Winter Day
D. McAuliffe

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Language Studies (B.A.)

Students interested in language studies should consult entry under French, Spanish, and Linguistics.

Specialist Programme in Management and Language

Registration in this Programme is limited. Please refer to the Management section of the Calendar for details. The Management and Economics and Humanities Division have cooperated to develop joint programmes in Management and French, and Management and Spanish. The Management requirement for any of these programmes is the first year requirements for the Specialist in Management.

Language requirements consist of five full-course equivalents in one language, made up of A, B, C, D, and E. Business Language, C, Civilization, as follows:

- Modern Italy
  - Exclusion: ITA206, ITA207
  - Prerequisite: ITA101 or ITA101
- Advanced Composition
  - Exclusion: ITA206, ITA207
  - Prerequisite: ITA101 or ITA101
- Practical Translation
  - Exclusion: ITA206, ITA207
  - Prerequisite: ITA101 or ITA101
- The Nineteenth-Century Italian Novel
  - Exclusion: ITA206, ITA207
  - Prerequisite: ITA101 or ITA101
- Italian Cinema
  - Exclusion: ITA206, ITA207
  - Prerequisite: ITA101 or ITA101

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Linguistics (B.A.)

Discipline Representative: R. Smyth (2877141)

Linguistics deals with all possible aspects of language. It has its own theory about the basic structure of language in such core areas as phonetics (what human sounds are possible speech sounds; how are they made and perceived?); phonology (how do languages choose sounds from the inventory of possible speech sounds; how do we build sentences?); syntax (how do we build sentences?); and semantics (the study of meaning in all its possible forms). Linguistics studies how language changes over time and how social forces cause such change. Linguists have interests in common with psychologists (psycho-linguistics—what is the relationship between language and mind? How does a child learn a language, or a second or subsequent language? What can language tell us about the mind works? How is writing connected to language?); sociologists (sociolinguistics—what is the relationship between language and society? How do your use of language tell people about your
Major Programme in Linguistics
Supervisor: D.M. James (287-7170)
The Major Programme in Linguistics: Ten full-course equivalents, as follows:
1 LING50Y General Linguistics
2 LING80Y Practical Language Study
3 LINCO2S Phonology
and LINCO2F Phonetics
4 LINCO2S Phonology
and LINCO2Y Syntax
5 LINCO2S Phonology
and LINCO2Y Syntax
6 LINCO2S Phonology
and LINCO2Y Syntax
7 LINCO2S Phonology
and LINCO2Y Syntax
8 LINCO2S Phonology
and LINCO2Y Syntax
9 LINCO2S Phonology
and LINCO2Y Syntax
10 LINCO2S Phonology
and LINCO2Y Syntax

LING40Y General Linguistics: The Theory of Language
Telephone ID #: 20001168
An introduction to the various methods and theories of modern linguistic study, and to the relations between language and mind, language and culture, and society.
Topics will be covered in second person in languages, word formation, sentence structure, meaning, and cultural studies. Students will analyze linguistic data so as to determine the principles and constraints which govern sentence formation and the expression of meaning via sentence structure. Limited attention will be paid to those features of syntax which appear to be universal in languages, and the focus of concern will be the ways in which these may be reflected in a general theory of syntax. Current theoretical approaches will be examined in detail.
Exclusion: LIN431N (LIN431N)
Prerequisite: LIN431N
Session: Winter Day
R. Binnoch
Offered every year

LING204Y Practical Language Analysis
Telephone ID #: 20001168
Analysis of sound, word, and sentence structure in a broad variety of languages of the world. Starting with the techniques of linguistic analysis studied in LIN401, students will analyze phonological, morphological, and syntactic data from a representative variety of language types. Problem sets will be distributed in class. Lectures will focus on how to organize data for analysis, how to draw upon general principles of language structure to identify possible solutions, and how to decide which of several competing solutions is best. Implications for different schools of linguistic theory will also be discussed.
Exclusion: LIN304Y (LING304Y)
Prerequisite: LIN204Y
Session: Winter Day
J. D. Woods
Offered every year

LING205FThe English Language and its Processes: Variations in Time and Place
Telephone ID #: 20025833
An introduction to the history of the English language and its development into the different varieties of English spoken in the world today.
Topics will include: how English has changed in form and structure as it has developed from one historical stage to the next, and how this has reflected social and cultural changes in the history of the English-speaking peoples; how and why different varieties of English have come into being, such as Canadian English, American English, and pidgin and creole languages based on English such as Jamaican Creole, and the development of "standard" forms of English and different social attitudes towards different varieties of English.
J. D. Woods
Session: Winter Day
Not offered: 1996/97
Offered: 1997/98

LING11Y Syntax: The Study of Sentence Structure
Telephone ID #: 20031162
The principles underlying the formation of sentences.
Students will analyze linguistic data so as to determine the principles and constraints which govern sentence formation and the expression of meaning via sentence structure. Limited attention will be paid to those features of syntax which appear to be universal in languages, and the focus of concern will be the ways in which these may be reflected in a general theory of syntax. Current theoretical approaches will be examined in detail.
Exclusion: LIN11Y
Prerequisite: LIN101
Session: Winter Day
J. D. Woods
Offered every year

LING101Y Practical Language Study
Telephone ID #: 20031163
Analysis of sound, word, and sentence structure in a broad variety of languages of the world. Starting with the techniques of linguistic analysis studied in LIN401, students will analyze phonological, morphological, and syntactic data from a representative variety of language types. Problem sets will be distributed in class. Lectures will focus on how to organize data for analysis, how to draw upon general principles of language structure to identify possible solutions, and how to decide which of several competing solutions is best. Implications for different schools of linguistic theory will also be discussed.
Exclusion: LIN401Y
Prerequisite: LIN401Y
Session: Winter Day
J. D. Woods
Offered every year

LING101F Semantics: The Study of Meaning
Telephone ID #: 20031223
The role of meaning in the structure, function, and use of language.
Topics include lexical (word and idiom) meaning, conveyed vs. literal meaning; the role of real world knowledge and other presuppositions in understanding language; and the relationship between form and content in sentences and larger linguistic units.
Prerequisite: LNA01F
Session: Winter Day
R. J. Binnoch
Not offered: 1996/97
Offered: 1997/98

PLUC2HS Developmental Psycholinguistics
Telephone ID #: 28432453
Descriptions of children's pronunciation, vocabulary, and grammar at various stages of learning their first language, and theories of the linguistic knowledge and cognitive processes that underlie and develop along with language learning.
Exclusion: JLCP31 (LINB15, PLIB24, JLCP24)
Prerequisite: One full-course equivalent in LIN and PSYA01
Session: Winter Day
R. Smyth
Not offered: 1996/97
Offered: 1997/98

PLUC2SF Psycholinguistics
Telephone ID #: 28435533
Experimental evidence for theories of how human produce and understand language, and of how language is represented in the mind.
Topics will include the perception and categorization of speech sounds; retrieval of words from memory during speech and listening; use of grammatical knowledge in language processing. Exclusion: JLCP31 (LINB15, PLIB24, JLCP24)
Prerequisite: One full-course equivalent in LIN and PSYA01
Session: Winter Day
R. Smyth
Offered every year
Management

The College offers the Bachelor of Commerce (B.Com.) degree to students who complete either the Specialist Programme in Management and Economics or the Specialist Programme in Management and Economic Theory. Students completing the Specialist Programme in Management and the Joint Specialist Programme in Management and Language will receive the B.A.

Our faculty development initiatives have enabled the Scarborough College Management programmes to offer a much wider range of elective courses than in previous years. Scarborough College students who wish to take courses at the St. George Campus for which comparable courses are not available at Scarborough should be aware that courses at the St. George Campus are subject to limits on enrolment.

Admission to graduate studies leading to the Master of Business Administration (MBA) degree is open to all qualified graduates (fifteen or twenty course degree) regardless of the subjects or disciplines studied at the undergraduate level. Students contemplating graduate study would be well advised to include MGT102 in their undergraduate programmes. 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 and on admission to Programmes. Information on how to apply for admission to a Programme and limited enrolment courses will be available prior to the end of classes each April.

Requirements: Prerequisites will be strictly enforced for all Management courses. Students who knowingly or unknowingly register for courses for which they do not have the necessary prerequisites will be denied access to those courses.

Management Programmes

There are three Specialist Programmes in Management, which are described below.

Admissions

Each year a total of 160 students are admitted to the Specialist Programmes. There are three possible ways to be admitted:

1. Directly from Secondary School
   Up to 80 students will be admitted directly from high school, on the basis of academic performance. Applicants interested in the Specialist Programme in Management must have completed OAC English L1 and one OAC math. Applicants interested in the Specialist Programme in Management and Economics or the Specialist Programme in Management and Economic Theory must have completed OAC English L1, OAC Calculus, and OAC Algebra/Geometry or Finite Math. In the first year, they will take the courses required for the programme of their choice (see the following paragraph). In order to remain in the programme students must maintain a GPA of 2.0 or higher after having completed at least 8 credits.

2. At the End of First Year
   Applicants for the Specialist Programme in Management must have completed (or be in the process of completing) MGT102 and ECO102 or ECO101. Applicants for the Specialist Programme in Management and Economics and the Specialist Programme in Management and Economic Theory must have completed (or be in the process of completing) MGT102, ECO102, and MAT122 or MAT246. Students who were unable to complete ECO102 or MAT122 or MAT246 may be admitted to the B.Com. programmes once they have completed calculus. Students should be aware that calculus is required in both of these programmes. The normal course to take to complete MAT122 is MAT123 or MAT246.
   Students applying for admission on completion of their first year of studies will be evaluated on the basis of all their grades, including the prerequisites for admission to the Programme. In order to remain in the programme students must maintain a GPA of 2.0 or higher after having attempted at least 8 full credits.

3. Admission after First Year
   Admission of students during second year (or later) is dependent on the availability of full courses. Students who have completed more than ten 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 Programme.
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 three Specialist Programmes.

Subject to enrollment limits, a student admitted to any of the Programmes will have access to the full range of offerings in the discipline. Specific Programme requirements are listed below.

**Specialist Programme in Management**

**Supervisor:** TBA

This Programme is designed to give students a broad exposure to all the functional areas of management. It allows students to pursue some degree of specialization in a specific area of management, or to combine studies in management and other disciplines, such as the programmes in Management and Humanities described below. Calculus is not required.

The Programme requires the completion of the following minimum requirements as part of a twenty-course degree:

**NOTE:** A single course may only be used to fulfill the requirement of one of the following courses:

1. MTG202, MTG204, MTG206, MTG210 (formerly ECO210) or STA202, STA204 and STA206, MTG208 and MTG210, MTG212, MTG214, MTG216, MTG218, MTG220, MTG222, MTG224, MTG226, MTG228.

2. Students who have completed MTG227 in 1993-94 or before the course from MTG227 and MTG229 (as listed in 1. above). These students however must also take 0.5 FCE of courses emphasizing management skills chosen from: MGT302, MGT304, MGT306, MGT308, MGT310, MGT312, MGT314, MGT316, MGT318, MGT320, MGT322, MGT324, MGT326, MGT328.

3. At least 0.5 FCE of courses as strategic management, chosen from: MGT302, MGT304, MGT306, MGT308, MGT310, MGT312, MGT314, MGT316, MGT318, MGT320, MGT322, MGT324, MGT326, MGT328.

4. ECO202 or ECO204, either ECO206 and ECO207, one of ECO208 and ECO209 combined with 1 FCE of C-Level economics courses.

5. CS302 or CS306

6. Three-and-a-half full-course equivalents from courses other than MGT & ECO, to include at least one full-course equivalent from Humanities.

**Joint Specialist Programme in Management and Language**

**Supervisor:** TBA

The Management and Economics and Humanities Divisions have cooperated to develop joint programmes in Management and French or Spanish.

The Management requirements for any of these programmes is the first 5 requirements for the Specialist in Management (see above). The sixth requirement is waived.

Language requirements consist of five full-course equivalents in one language, made up of: A, Basic Language, B, Business Language and G, Civilization, as follows:

**FRENCH**

A. FRE201, FRE203, one full-course equivalent from FRE301, FRE302, FRE304 or FRE305.

B. At least one full-course equivalent from FRE306, FRE311 or FRE318.

C. At least one half course from FRE202, FRE203, FRE212, FRE217, FRE220.

D. An additional half course in FRE

**SPANISH**

A. SPA201, SPA202, SPA203, SPA204, SPA205, or SPA206.

B. SPA207.

C. SPA215, SPA216, SPA222 or SPA233.

* Students taking HUMC14 are not required to take SPA204.

Students must take at least 10 FCE’s included in Management listed as requirement 1 - 5 of the Management curriculum plus the Language requirements.

**Specialist Programme in Management and Economics**

**Supervisor:** T.B.A.

This programme is designed to give students a broad exposure to all the functional areas of management as well as a solid grounding in economics. Quantitative topics are treated rigorously by means of calculus.

The Programme requires the completion of the following minimum requirements as part of a twenty-course degree:

**NOTE:** A single course may only be used to fulfill one of the following requirements:

1. MTG202, MTG204, MTG206, MTG207, MTG210, MTG212, MTG214, MTG216, MTG218, MTG220, MTG222, MTG224, MTG226, MTG228.

2. Students who have completed MTG227 in 1993-94 or before the course from MTG227 and MTG229 (as listed in 1. above). These students however must also take 0.5 FCE of courses emphasizing management skills chosen from: MGT302, MGT304, MGT306, MGT308, MGT310, MGT312, MGT314, MGT316, MGT318, MGT320, MGT322, MGT324, MGT326, MGT328.

3. At least 0.5 FCE of courses as strategic management, chosen from: MGT302, MGT304, MGT306, MGT308, MGT310, MGT312, MGT314, MGT316, MGT318, MGT320, MGT322, MGT324, MGT326, MGT328.

4. ECO202, ECO204, ECO206, ECO207, ECO208, one of ECO209 and ECO210 combined with 1 FCE of C-Level economics courses.

5. CS302 or CS306

6. Three-and-a-half full-course equivalents from courses other than MGT & ECO, to include at least one full-course equivalent from Humanities.

**emphasizing management skills chosen from MTG222, MTG224, MTG226, MTG228, MTG230, MTG240.**

Students taking MTG222 will not be required to complete this requirement.

3. At least 0.5 FCE of courses emphasizing strategic management, chosen from: MGT210, MGT212, MGT214, MGT216, MGT218, MGT220, MGT222, MGT224, MGT226, MGT228, MGT230, MGT240.

4. ECO202, ECO204, ECO206, ECO207, ECO208, one of ECO209 and ECO210 combined with 1 FCE of C-Level economics courses.

5. MAT228 or MAT230

6. CS306

7. Two-and-a-half additional FCE's from courses other than MGT220, to include at least 1 FCE from Humanities.

**Careers in Accountancy**

The College has a significant number of courses which have been recognized as meeting part of the educational training of Chartered Accountants, Certified General Accountants and Certified Management Accountants. A brochure describing the various programmes and listing the recognized Scarborough College courses is available from Counselling Services (287-7556).

**MGT202** Introduction to Management

Telephonic ID #: 33021263

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 MGT courses.

Exclusions: Any other MGT course (except ECO2 for students in programmes requiring ECO2 or ECO3 for students admitted to the Management programme directly from high school).

**MGT204** Financial Accounting

Telephonic ID: 33021263

Basic theory and concepts which underlie the preparation of financial statements; development of double entry theory and practice; the basic concepts of recording transactions in double entry form to the general ledger and the interpretation of financial statements; problems of measuring ownership interests in the course provides a rigorous introduction to accounting techniques and to the principles and concepts underlying these techniques. Enrollment in this course is limited to students registered in programmes requiring this course.

Exclusions: (MGT201) (MGT201h = prerequisite)

Prerequisite: GAT201. Students admitted to the Management programme directly from high school and students registered in programmes requiring this course may take MGT201 concurrently.

Session: Winter Day, Summer Evening

**MGT207** Financial Accounting

Telephonic ID #: 33021263

Basic theory and concepts which underlie the preparation of financial statements; development of double entry theory and practice; the basic concepts of recording transactions in double entry form to the general ledger and the interpretation of financial statements; problems of measuring ownership interests in the course provides a rigorous introduction to accounting techniques and to the principles and concepts underlying these techniques. Enrollment in this course is limited to students registered in programmes requiring this course.

Exclusions: (MGT201) (MGT201h = prerequisite)

Prerequisite: GAT201. Students admitted to the Management programme directly from high school and students registered in programmes requiring this course may take MGT201 concurrently.

Session: Winter Day, Summer Evening
MGTB10F Management Accounting
Telephone ID #: 3350333
Telephone ID # for MGTB10F: 3350333
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.
Exclusions: (MGTB101) MGT222H & MGT223H
Prerequisites: EC2A02 or EC2A03
Corequisite: MGTB20
Session (S): Winter Day, Winter Evening
Session (P): Summer Evening

MGTB10F Quantitative Methods in Management
Telephone ID #: 33521033
An introduction to statistics and regression analysis as used in economic analysis. The course will cover material similar to EC2B09 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 enrollment: 80 per section.
Exclusions: ANT235, (EC2B11), (EC2B12), (EC2B10), (GEB231), PSYB07, SOC906, ST2002
Prerequisites: EC2A02 or EC2A03
Session: Winter Day
T.B.A.

MGTB28Y Managing People in Organizations: Concepts and Skills
Telephone ID #: 33521033
This course integrates conceptual knowledge about managing people in organizations with opportunities to develop management skills related to their practical application. The first half of the course introduces students to micro-organizational behaviour theories from both conceptual and applied perspectives. Topics covered include: individual differences, motivation and job design, satisfaction and decision making. The second half focuses on developing students’ management skills. The objective is to improve students’ own personal management competencies in areas such as communications, decision making and problem solving, motivating and leading, and teamwork. Enrollment is limited to students registered in programs requiring this course.
Exclusions: (MGTB28Y) MGT362H
Prerequisite: MGT20Y
Session: Winter Day, Winter Evening, Summer Evening
J.L. Xie, J. Ream

MGTB28F Managing Groups and Organizations
Telephone ID #: 33522933
This course introduces students to theoretical and practical aspects of macro-organizational behavior. Building on concepts and skills from MGT228, management issues at group and organizational levels of analysis are emphasized. Topics covered include: group dynamics, organizational culture, innovation and change, human resource management, and organizational change. Enrollment is limited to students registered in programs requiring this course.
Exclusions: (MGTB28F) MGT362H
Prerequisite: MGTB28
Session: Winter Day, Winter Evening

MGTB20F Organizational Design in the Not-For-Profit Sector
Telephone ID #: 33521033
The course will begin with an examination of the peculiar structural characteristics of the not-for-profit sector. Various theoretical frameworks will then be considered in terms of their impacts on organizational structures and success. Organizational theory models will be used as a springboard into an investigation of the dynamics of a wide variety of not-for-profit organizations within the sector.
This course will assist participants to build a strategic "toolkit" for the proactive design and management of organizations within the not-for-profit sector.
Limited enrollment: 60
Prerequisite: MGTB28Y
Session: Winter Evening

MGTB18Y Intermediate Financial Accounting
Telephone ID #: 33501633
An examination of some of the theoretical and practical accounting problems involved in preparing financial statements and balance sheet valuation. The course builds extensively on the existing knowledge of cost accounting to a lesser extent, MGTB30. Potential students should review thoroughly the basic accounting model, preparation of financial statements and accounting principles prior to the start of the course.
Limited enrollment: 60
Prerequisites: MGTB20 and MGTB30 or (MGTB101)
Corequisite: MGTB60
Session: Winter Day, Winter Evening

MGTB28S Principles of Finance
Telephone ID #: 3350333
The objective of this course is to provide students with the theories and skills to make optimal corporate financial decisions. It deals with general approaches for valuing cash flows. Enrollment is limited to students registered in programs requiring this course.
Limited enrollment: 60
Exclusions: MGTB20, MGT231Y, MGT337Y
Prerequisites: MGTB10 (MGTB03), EC2B03 or EC2B04
Session: Winter Day, Winter Evening, Summer Evening

MGTB20S Principles of Marketing
Telephone ID #: for MGTB20S: 33503433
Telephone ID #: for MGTB20S: 33503433
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 as an organizational and societal setting. The subjects include an examination of buyer behaviour, market segmentation and target marketing, the marketing mix, the elements of the marketing mix: product, price, promotion and channel policies; marketing planning, evaluation and control.
Limited enrollment: 60
Exclusions: MGTB20S
Prerequisites: MGTB10 (MGTB03), EC2B03 or EC2B04
Session: Winter Day, Winter Evening, Summer Evening

MGTB20S Introduction to Marketing Management
Telephone ID #: 3350553
A pragmatic case and readings oriented approach to develop the analytical skills required of marketing managers. The course is designed to help improve skills in analyzing marketing situations, identifying market opportunities, developing marketing strategies, making purchase recommendations, and defending these recommendations.
Limited enrollment: 60
Exclusions: MGTB30
Prerequisites: MGTB20
Session: Winter Day

MGTB20S Intermediate Management Accounting
Telephone ID #: 33503633
An examination of various cost accounting and performance evaluation systems and decision-making tools. Topics include job and process costing, flexible budgeting, and variance analysis and cost allocations.
Limited enrollment: 60
Exclusions: (MGTB01) MGT222H & MGT320H
Prerequisites: MGTB03
Session: Winter Evening

MGTB20S Intermediate Finance
Telephone ID #: 33503633
This course provides a detailed examination of approaches for dealing with financial decisions faced by the corporation. Included are issues such as capital budgeting, leasing, mergers and acquisitions, and alternative financing methods.
Limited enrollment: 60
Exclusions: MGTB02, MGT331Y, MGT337Y
Prerequisites: MGTB03, EC2B03 or EC2B04
Session: Winter Day

MGTB20F Management Control Systems
Telephone ID #: 33511033
The course objective is to develop a thorough understanding of planning and control systems in organizations, with an emphasis on behavioural implications. Case studies will be used to evaluate control structures and processes with some attention given to control, service and profit-oriented organizations.
Limited enrollment: 60
Exclusion: MGT428H
Prerequisites: MGT20 (MGTB01) and MGT28 (MGTB27)
Session: Winter Evening

MGTB20F Management Information Systems
Telephone ID #: 33511033
This course aims to help students understand the information systems that are a critical component of most organizations. The course covers the technology, the design and application of data processing and information systems, with emphasis on managerial judgment and decision making.
Limited enrollment: 60
Prerequisites: MGTB03 (MGTB01) and MGT28 (MGTB27).
A CSC course is recommended.
Session: Winter Day
Management

MGTC165 Canadian Income Taxation I
Telephone ID: 33351653
This course is the first of two courses in Canadian income taxation. It is designed to provide the student with detailed instructions 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
Exclusion: MGTC115
Prerequisites: Completion of at least ten full-course equivalents including MGIB20 or (MGTA20) and MGIB3
Session: Winter Day, Winter Evening, Summer Evening

MGTC175 Canadian Income Taxation II
Telephone ID: 33351753
This course is designed to give the student an understanding of the more complex issues of federal income taxation, by applying current tax law to practical problems and cases. Topics include: computation of corporate taxes, corporate distributions, corporate re-organizations, partnerships, trusts, and individual and corporate tax planning.
Limited enrolment: 60
Exclusion: MGTC115
Prerequisite: MGTC116
Session: Winter Evening

MGTC225 Human Resource Management
Telephone ID: 33352253
An introduction to the basic concepts, theories and practices of personnel management. Topics include recruitment, selection, training, development, performance appraisal, compensation and benefits, and the role of human rights legislation. Written and oral communication skills will be emphasized.
Limited enrolment: 60
Exclusions: MGTC128 (MGIB27), Corequisites: MGIB160F
Session: Winter Day

MGTC226 Organizational Design
Telephone ID: 33352263
This course considers theoretical and design aspects of modern organizations. Various theoretical perspectives will be explored that are used to explain the formal and informal structure of organizations. The course will consider public and private sector organizations and make extensive use of case study material.
Limited enrolment: 60
Exclusion: MGTC63H, MGIB29 for 1995/96 only
Prerequisites: MGIB28 & MGIB29 (MGIB29 for 1995/96 only)
Session: Winter Day

MGTC228 Comparative Organizational Behavior
Telephone ID: 33352283
This course studies the impact on organizational strategies of different environments, focusing on how individuals and organizations can develop and implement strategies to be effective in a variety of environments.
Limited enrolment: 60
Exclusions: MGIB28 (MGIB27), Corequisite: MGIB29F
Session: Winter Day

MGTC257 The Legal Environment of Business
Telephone ID: 33353063
An intensive examination of those aspects of the law that most directly affect the operation of a business.
Limited enrolment: 60
Exclusion: MGIB29F
Prerequisites: Completion of at least ten full-course equivalents including MGIB20 or (MGTA20)
Session: Winter Day, Summer Evening

MGTC335 Management and Organization in Practice
Telephone ID: 33353353
Through the analysis of works of fiction dealing with managers in both private and public sector organizations, the course explores the ethical dilemmas, organizational politics and career choices that managers can expect to face.
Limited enrolment: 60
Exclusion: MGIB28 (MGIB27)
Prerequisites: MGIB28 (MGIB27)
Session: Winter Day

MGTC367 Management Communications
Telephone ID: 33353673
This course examines the role of management communications skills in the workplace. Topics such as writing, negotiating, public speaking, persuasion, presenting ideas, and the development of effective executive communication skills are emphasized. Written, verbal, and non-verbal communication is emphasized by the extensive use of classroom demonstrations, case studies, student presentations, and role playing.
Limited enrolment: 60
Prerequisites: MGIB28 (MGIB27), MGIB3
Session: Winter Evening

MGTC385 Entrepreneurship
Telephone ID: 33353853
This course focuses on the practical aspects of starting and running a business. Topics include: entrepreneurship, new venture creation, business planning, marketing, and financial management.
Limited enrolment: 60
Prerequisites: MGIB28, MGIB29 (MGIB29 for 1995/96 only)
Session: Winter Day

MGTC386 Entrepreneurship
Telephone ID: 33353863
This course focuses on the practical aspects of starting and running a business. Topics include: entrepreneurship, new venture creation, business planning, marketing, and financial management.
Limited enrolment: 60
Prerequisites: MGIB28, MGIB29 (MGIB29 for 1995/96 only)
Session: Winter Day

MGTC426 Public Management
Telephone ID: 33354263
The course deals with key public sector management processes (strategy-setting, budgeting, human resources, crisis management) making extensive use of cases, case studies, and simulations intended to develop the student's management skills.
Limited enrolment: 60
Exclusion: MGIB491F
Prerequisites: MGIB28 (MGIB27), POLA50 (POLA01) or POLB50
Corequisite: MGIB190F
Session: Winter Day

MGTC445 International Business Management
Telephone ID: 33354453
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.
Limited enrolment: 60
Exclusion: MGIB491F
Prerequisites: MGIB29 and MGIB28 (MGIB27)
Session: Winter Evening

MGTC454V Industrial Relations
Telephone ID: 33354543
A study of industrial relations in the Canadian setting. Topics include: industrial relations theory and systems; history, philosophy and structure of unions, labour law, and a collective bargaining simulations exercise.
Limited enrolment: 60
Prerequisite: Completion of at least ten full-course equivalents including ECOC02 or ECOC03 and MGIB120
Session: Winter Evening

MGTC455 Managerial Ethics
Telephone ID: 33355455
This course provides students with a set of skills necessary to deal with the ethical problems facing contemporary managers. Increasingly, the marketplace has come to reward - and government regulators have come to demand - a sophisticated managerial approach to the ethical problems that arise in all areas of business practice. Topics will include ethical issues in international business, finance and banking, advertising, accounting, intellectual property rights, environmental policy, product and worker safety, new technologies, pay equity and affirmative action, whistle-blowing, and drug testing for employees.
Limited enrolment: 60
Prerequisite: MGIB20
Session: Winter Day

MGTC465 Introduction to Operations Management
Telephone ID: 33356655
Introduces the student to the design and control problems of systems that transform inputs into output, with emphasis on making major strategic, tactical, and operational decisions in the operations function. The course also covers several Management Science approaches used to solve the associated problems. Enrolment is limited to students registered in programmes requiring this course.
Limited enrolment: 60
Exclusions: MGIB105
Prerequisites: ECOC03, MGIB10 (ECOC10)
Session: Winter Day

MGTC474 Analysis for Decision-Making
Telephone ID: 33357474
Introduction to Management Science approaches to dealing with decision-making situations, including discussions of problem definition, objectives, constraints, model construction and validation, interpretation of solutions, sensitivity analysis and interpretation. Topics include: decision analysis, mathematical programming, network
methods, dynamic programming and
modeling techniques.

Exclusions: MGT450 and MGT451
Prerequisites: MGMT20, ECON09 (ECON12)
Session: Winter Day

MGT106 Advanced Operations Management
Phone ID: 33541033
This is an advanced course in Management Science and Operations Management. It examines methods for designing, evaluating, and delivering services. Topics include: inventory, fluid capacity planning, location and layout of facilities, aggregate planning, project management, inventory control, and production scheduling.
Limited enrolment: 40
Exclusions: MGT106, MGT451
Prerequisites: MGMT106, and (MGT107) and (MGT108)
Session: Winter Day

MGT106 Market Research
Phone ID: 33540573
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
Exclusions: MGT453, MGT454
Prerequisites: MGMT106, ECON09 (ECON12) or (ECON12). Computer background recommended.
Session: Winter Day

MGT106 Strategic Marketing Management
Phone ID: 33540573
A capstone marketing course which integrates conceptual and applied material between marketing and other disciplines such as finance and organizational behavior through experience rather than instruction. Students manage "teams" in a computerized simulation.
Limited enrolment: 40
Exclusions: MGT453, MGT454
Prerequisites: MGMT106, MGMT12, MGMT13
Session: Winter Day

MGT106 Current Issues in Management Accounting
Phone ID: 33545533
This course will deal with a number of topics in current accounting literature, with particular reference to the standard-setting process and the problem of the development of "good" rather than "performatory" accounting. Topics may also include not-for-profit and government accounting, deferred taxes and pensions, and international harmonization issues.
Limited enrolment: 40
Prerequisites: MGMT101
Session: Winter Day

MGT106 Auditing
Phone ID: 33546053
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, and some discussion of audit procedures and the legal and professional responsibilities of the auditor.
Limited enrolment: 60
Prerequisites: MGMT101
Session: Winter Day

MGT106 Financial Accounting
Phone ID: 33545533
This course will deal with a number of topics in current accounting literature, with particular reference to the standard-setting process and the problem of the development of "good" rather than "performatory" accounting. Topics may also include not-for-profit and government accounting, deferred taxes and pensions, and international harmonization issues.
Limited enrolment: 60
Prerequisites: MGMT101
Session: Winter Day

MGT106 Supervised Reading Course
This course is intended for upper-level students whose interests are not covered in one of the other Management courses normally offered. The course will only be offered when a faculty member is available for supervision and would only be available to students whose Management performance has been above average. Students interested in this course should consult with the Supervisors of Studies for Management well in advance.
Prerequisites: Permission from the instructor.
Session: Summer Day, Summer Evening, Winter Day, Winter Evening

MGT106 Retail Management and Strategy
Prerequisites: MGMT105
Session: Winter Day

Mathematics (B.Sc.)

Discipline Representative: J. Schenk
Phone ID: 287-7269
The development of mathematics was induced by the inherent need to describe and analyse elements of the physical world as accurately as possible. Applied mathematics and statistics are still concerned with the building of models for use in real-world contexts. Pure mathematics is concerned with systems of axioms and the true statements or theorems which can be deduced from them. While pure mathematics is not necessarily initially motivated by practical considerations, there are numerous instances where the solution of problems in other branches of science has been based upon previously developed pure mathematical theory. The wide applicability of both the techniques of the subject and the method of reasoning employed suggests that most students could profit by taking some courses in mathematics.

MATAG1: Linear Algebra
Telephone ID: 20411043
Prerequisite: Grade 13 Calculus and one other Grade 13 Mathematics or OAC Calculus and OAC Algebra
Session: Winter Day

MATAG2: Calculus
Telephone ID: 20411056
This course includes: limits and continuity, derivatives, related rates, extremum problems, graph sketching, Newton’s method, indefinite and definite integrals, numerical integration, Taylor approximation and differential equations. Students must have an approval calculator with memory and the exponential, logarithmic and trigonometric functions and their inverses.
MATAG2Y introduces the basic techniques of calculus with a strong emphasis on methods of approximation. The course will develop these ideas by the investigation of specific examples. MATAG2Y is a demanding course which will equip the student for most sciences and for further work in mathematics. Exclusion: MATAG7, MATAG2Y, MATAG3, MATAG4, MATAG5, MATAG7, MATAG8, MATAG13, 133, 135, 139, 149
Prerequisite: Grade 13 Calculus or OAC Calculus and one of OAC Algebra and Geometry or OAC Finite Mathematics.
Session: Winter Day, Summer Evening

MATAG7Y Introduction to Optimization
Telephone ID: 20412863
Areas to be covered include, Rn as a model space in economics, constraints, functions of one and several variables, graphs.
Derivatives, partial derivatives, differences, rules for differentiation in several variables including chain rule, higher derivatives. Exponential and logarithmic, geometric series, discrete and continuous interest. One variable optimization: relative and absolute maxima, graph sketching, word problems. Matrix algebra, linear equations. Optimization in several variables. Convex maps, Lagrange multipliers. Linear programming. This course is illustrated throughout by examples drawn from Economics. Students must have an approved calculator with memory and the exponential and logarithmic functions. Exclusion: MATAG6 (MATAG7, MATAG2, MATAG13, 133, 135, 139, 149)
Prerequisite: OAC Calculus and one of OAC Algebra and Geometry or OAC Finite Mathematics.
Corequisite: EUCO40Y (EUCO41Y)
Session: Winter Day

NOTE: This course is intended for certain students in some Management and Economics Programs. It does not satisfy the requirements for any Programme in the Physical Sciences except the Programme in Management and Economics. However, it may not be used as a prerequisite for any further Mathematics course. Students should consult with the Faculty in Management and Economics or with Counselling Services to make sure that MATAG2Y is appropriate to their needs.

MATAG5F: Geometry
Telephone ID: 20420017
Is an introduction to symmetry, Euclidean geometry: lengths, angles, polygons, circles, isometries, symmetry groups. Di Vincen’s geometry and the platonic solids. Discrete groups of symmetries: friezes and patterns, lattices, tessellations, crystallography. This course is intended as an introduction to geometry. It emphasizes the interplay between geometry and algebra. It should be of interest to students in chemistry, computer science and physics. Exclusion: MATAG13
Prerequisite: MATAG4 or (MATAG5, MATAG6, MATAG7, MATAG8) Session: Winter Day

MATAG3F: Algebra I
Telephone ID: 20423133
A focus on groups, definition and elementary examples, symmetry groups, matrix groups, permutation groups, equivalence relations, cosets, congruency classes. A study of Theorems of Lagrange, Cauchy, Cauchy, class formula and Sylow theorems. Finite Abelian groups: modular arithmetic, Euclidean algorithm, lcm, gcd, classification. Exclusions: MATAG4, MATAG41, MATAG47, 300
Prerequisite: MATAG4 or (MATAG5, MATAG6)
Session: Winter Day

MATAG32: Algebra II
Telephone ID: 20422538
A study of rings: ideals, quotient rings, homomorphisms, domains and their fields of fractions. Dedekind domains and their arithmetic. Polynomial rings, roots of polynomials, extension fields. Structure theorem for modules over a principal ideal domain, with applications to finitely generated abelian groups and normal forms of matrices.
Exclusions: (MATAG6, MATAG49, MATAG13, MATAG16, MATAG41, MATAG47)
Prerequisites: MATAG31 or (MATAG4, MATAG5, MATAG6)
Session: Winter Day

MATAG41F: Techniques of the Calculus of Several Variables
Invalid

MATAG5F: Discrete Dynamical Systems
Telephone ID: 20422191
A study of vector fields in $R^n$, lines and planes in $R^3$, compact surfaces, matrices, determinants and linear equations, functions of several variables, partial derivatives, gradient, tangent plane, Jacobian matrix and chain rule, Taylor series, extremum problems, extremum problems with constraints and Lagrange multipliers, multiple integrals, applications of parametric and spherical coordinates, law of transformation of variables. Exclusions: MATAG2Y, MATAG3, 335, 335, 335, 335, 335, 335, 335, 335
Prerequisites: MATAG6Y MATAG7Y
Session: Winter Day

MATAG6Y: Techniques of the Calculus of Several Variables Y
Telephone ID: 20424233
Polar, spherical and cylindrical coordinates, the derivation of equations of spheres, conic sections, parametric representation of curves, polar form for lines, integrals, surfaces, parametric representation of surfaces, surface integrals. Green’s, Gauss, and Stokes’ theorems will also be covered. As an introduction to differential forms, total derivative, and coordinates.
Exclusions: MATAG30, 225, 225, 335, 225
Prerequisite: MATAG13
Session: Winter Day

MATAG6Y Introduction to Analysis
Telephone ID: 20424233
This course is designed for students whose interest in mathematics has been stimulated by their experience in A25 and AOM, and who wish to acquire the analytic techniques which are essential for more advanced work.
There will be a fundamental emphasis on rigorous analytic proofs.
Students will study the least upper bound principle for $R$, limits in $R$ and $R^2$, continuous functions 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 theorem of the calculus, the Riemann integral.
Exclusions: MATAG27, MATAG26
Prerequisites: MATAG3, MATAG4 or (MATAG5, MATAG6)
Corequisites: MATAG32, MATAG42
Session: Winter Day

MATAG75: Introduction to Number Theory
Telephone ID: 20424233
A study of some properties of integers, prime numbers, congruences, quadratic residues, quadratic reciprocity, rational approximation.
Exclusions: MATAG13
Prerequisites: MATAG3 or (MATAG4, MATAG5)
Corequisites: MATAG13, MATAG31
Session: Winter Day

MATAG15: Discrete Dynamical Systems
Telephone ID: 20424233
Areas covered include: metric spaces, dynamics on the real line, fixed points, periodic points, attractors, repellers, Sarkovskii’s theorem, parametrized families of functions and bifurcations, period doubling, dynamics of the logistic map, symbolic dynamics, chaos, topological equivalence of the logistic map and the shift map, Newton’s method, dynamics on the complex line, iteration of rational functions, Julia sets, Mandelbrot set.
Prerequisite: MATAG35
Corequisites: MATAG32, MATAG33
Session: Winter Day
Music (B.A.)

Discipline Representative: J. Mayo (287-7191)

Music courses on the Scarborough Campus are designed both for students who intend to pursue a career in the arts and for students whose interests are more general. Students who have taken music as a subject at high school or elsewhere will find a selection of historical, theoretical, and practical courses available, while students with no previous musical background can begin musical studies here.

Most of the upper-level courses assume that the student has some ability in reading music of a simple nature, and all encountering students are encouraged and helped to acquire this skill as soon as possible. All students should consider taking advantage of the various opportunities that exist in the College for practical music making, particularly the series of Supervised Performance Courses.

Major and Minor Programs in Music History are offered (see below). Music is also a component of the Specialist Program in the Arts and the Specialist Program in Arts Administration (see pages 30 and 31).

Minor Program in Music History Supervisor: J. Mayo (287-7191)

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bear mentally what is written and to write down what the inner ear perceives.

Exclusion: MUS107, MUS117.

Prerequisite: Royal Conservatory Gr II (music fundamentals) or equivalent.

Session: Winter Day

A. Rapoport

Offered 1996/97 and 1997/98.

MUS311F Listening to Music

Telephone ID #: 22611133

An introduction to the language of music for non-musicians.

In the sonic-polluted environment in which we live, surrounded by sounds both musical and non-musical, listening to music has become an art that needs to be consciously cultivated. This course is an introduction to the rewarding art of intelligent listening.

Through examples from a variety of musical sources, including non-Western and popular music as well as "classical" music, students are introduced to some of the mysteries of musical composition and given a deeper understanding of how music works.

Throughout the course the emphasis is on what may be heard in a piece of music and theoretical concepts are kept to a minimum. No previous musical experience is required.

Exclusion: MUS301 (MUS301XAD20280), MUS3100.

Session: Winter Day

J. Mayo

Offered 1995/96.

MUS5015 Music of the Twentieth Century

Telephone ID #: 22820153

A study of music in the period between the birth of Christ and the early 25th century.

This course is a survey of the major forms of music, both sacred and secular, found in Europe during the Middle Ages. The history of chant in the Roman Church, the sacred song of the troubadours and trouvères, and the rise of polyphony are included. In addition, the aesthetic, philosophical, and sociological factors for medieval music will be considered.

Exclusion: HM1022.

Prerequisite: MUS301 (MUS301XAD20280), MUS100.

Session: Winter Day

W. Bowen

Not offered 1996/97.

MUS5055 Music of the Baroque Era

Telephone ID #: 22820553.

A study of the music from the early seventeenth century until the death of Bach.

A brief survey of the major forms which led to the breakdown of the late Renaissance style, followed by a study of the "two practices" of Monteverdi, Schütz and their contemporaries and the early development of opera and oratorio, with examples taken from the works of Cavalli, Carissimi, Lotti and Porpora. The formation of an idiomatic keyboard style by Frescobaldi, Sweelinck and Froberger and the development of the sonata, concerto and sonatinas in the hands of Corelli, Vivaldi and others. The late baroque is represented by the music of Corelli, Bach and Handel, with selected works by these composers studied in detail.

Exclusion: MUS301 (MUS301XAD20280).

Prerequisite: MUS301 (MUS301XAD20280).

It is recommended that students with no background in elementary harmony take MUS609 as a co-corequisite.

Session: Fall Day

J. Mayo

Offered 1996/97.

MUS609S Materials of Music II

Telephone ID #: 22820955.

A continuation of MUS609.

Exclusion: MUS304, MUS204, MUS211.

Prerequisite: MUS309 (MUS309XAD20280), MUS117, or Royal Conservatory Gr III harmony or equivalent.

Session: Winter Day

A. Rapoport

Offered 1996/97 and 1997/98.

MUS813S Music for the Theatre

Telephone ID #: 22621353.

An introduction to how music is combined with other arts in the theatre.

Multimedia shows in the theatre are a popular form of entertainment. In a study of representative examples (including ballets, films, operas and operas) this course will focus on the relationship between the individual arts. The selected works will be considered not only for their musical and dramatic qualities, but also in terms of the creative process. In addition, the course will examine the production and performance traditions.

Students will study audio-visual records and, where possible, live performances. No previous musical experience is required.

Session: Winter Day

W. Bowan

Not offered 1996/97.

MUS814S Jazz

Telephone ID #: 22621453.

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.

Session: Summer Evening

TBA

Not offered 1996/97.

MUS817F Performing Arts of Asia

Telephone ID #: 22821753.

An introduction to the rich variety of performing arts in their social and cultural contexts as found in East, Southeast, Central, and South Asia.

A general introductory overview of musical life with reference to Asian geography, history, religion, and common social and cultural characteristics. The course will then take a more in-depth look at three important and distinct cultural areas: East Asia (including China, Japan and Korea), Southeast Asia (including Thailand, Cambodia, Vietnam, Malaysia and Indonesia) and South/Central Asia (including India, Pakistan, Afghanistan, and Iran). For each area the course will explore music, dance, and drama—these are inextricably linked in the Asian context—from four separate yet complementary perspectives: (a) religious life; (b) court traditions; (c) tribal and folk traditions; and (d) popular and contemporary developments. The course will be illustrated with a variety of audio-visual materials and, where possible, live demonstration and/or participation. No previous musical experience is required.

Session: Summer Evening

A. Singer

MUSC60F Opera

Telephone ID #: 22826033.

The history of opera from its inception to the present day.

Through detailed study of representative examples from the operatic repertoire and of discussions by contemporary critics, this course focuses on the changing concept of the genre, particularly as it is revealed in the music and libretti.

Exclusion: HM1335F and MUS350H.

Prerequisite: MUS309 (MUS309XAD20280) and one course from the series MUS3000-MUS3006.

Session: Winter Day

W. Bowan

Not offered 1996/97.

MUSC65F The Symphony

Telephone ID #: 22630533.

The changing concept of the symphony investigated through close study of representative examples from the 18th century to the present day. Symposium to be studied will be chosen from among the works of Haydn, Mozart, Beethoven, Berlioz, Brahms, Bruckner, Mahler, Shostakovich, Stravinsky, Hindemith, Ives and Hone.

Session: Winter Day

J. Mayo

Not offered 1996/97.

MUSD100 Introduction to Recordings

Telephone ID #: 22826103.

An introduction to alternative methods of interpreting music.

The study of music has long been dominated by historical style study and complex analytical methods. Recently there has been a number of other approaches that are gaining ground and this course will examine these new techniques. The course will begin examining the work of Joseph Kerman, Edward Cone and Leo Treitler. The remainder of the course will consider topics drawn from the following list: Leonard Meyer's use of alienism in Gestalt psychology; Derek Cook's attempts to interpret music as a language; the many sociological studies that take as their point of departure the work of Theodore Adorno; the contribution of feminist studies and critiques to our understanding of music; the
Performance Courses

The following performance courses are also available to students on a non-credit basis and are open to all faculty and staff members. Entrance for all participants is by audition. Credit students should preregister but will not be admitted to the course unless granted permission of the instructor during the first week of classes.

MUS201H Supervised Performance I -Chorus
Telephone ID #: 2262243
The practical study of a wide range of music from the choral repertoire.
Students work as members of Scarboro College Chorus, a chamber choir which performs compositions drawn from the literature of the Renaissance to the present day. The choir gives public performances in each term.
In addition, credit students may be required to prepare works in conjunction with members of the instrumental performance programme. Previous experience in music is desirable but not essential.
The course meets 2 hours per week for 1 hour with MUS201 and MUS202. Prerequisite or Corequisite: Any A-level course in Music, MUS213, MUS214, MUS311, or MUS312.
Session: Winter Day
TBA

MUS202H Supervised Performance II -Chorus
Telephone ID #: 2262243
A continuation of MUS201.
Students in this course meet for three hours per week, two hours with students of MUS201 and one hour in a seminar. In this seminar the elements of choral directing and conducting are introduced.
Prerequisite: MUS201
Session: Winter Day
TBA

MUS203H Supervised Performance II -Instrumental
Telephone ID #: 2262243
A continuation of MUS202.
Students in this course meet for two hours per week, two hours with students of MUS202 and MUS203 and an hour in a seminar. In this seminar the elements of instrumental directing and conducting are introduced.
Prerequisite: MUS202
Session: Winter Day
TBA

MUS204H Independent Studies
Telephone ID #: 2262243
The practical study of ensemble performance.
Students work in an ensemble and prepare works for public performance within the College. The emphasis of the course is on the particular problems of ensemble performance and it assumes a basic competence on the chosen instrument. (NOTE: Pianists cannot be accommodated in ensembles except in very exceptional circumstances.) Each group will meet for 2 hours per week for rehearsal with MUS204 and MUS205.
Prerequisite or Corequisite: Any A-level course in Music, MUS213, MUS214, MUS311, or MUS312.
Session: Winter Day
TBA

MUS205H Supervised Performance II -Instrumental
Telephone ID #: 2262243
A continuation of MUS204.
Students in this course meet for three hours per week, two hours with students of MUS204 and MUS205 and one hour in a seminar. In this seminar the elements of instrumental directing and conducting are introduced.
Prerequisite: MUS204
Session: Winter Day
TBA

MUS206H Music Analysis
Course not offered in 1995/96

MUS207Y Independent Studies
A specialized course for students who have demonstrated a high level of academic maturity and competence.
Qualified students will investigate a field of musical scholarship which is of common interest to both student and supervisor and which is not available for study otherwise. Students meet regularly with the supervisor for constitution and prepare a 5,000-10,000 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 MUS209 and MUS209 may in certain circumstances pursue a course of composition, producing a portfolio of original works in place of the essay.
Students are advised that they must obtain consent from the supervising instructor before registering for this course.
Prerequisite: At least two full-course equivalents in Music at the B- and C-level; permission of instructor to be obtained by the last day of classes in the previous term.
Session: Winter Day
Co-ordinator: J. May
Offered 1995/96 and 1997/98

Neuroscience

Neuroscience encompasses aspects of a variety of disciplines that have the common goal of understanding how the nervous system works. Techniques borrowed from diverse disciplines like anatomy, physiology, biochemistry, psychology and pharmacology are being used to unravel some of the mysteries of the brain and its mechanisms of action. Investigators in Neuroscience have also made fundamental contributions in the clinical aspects of neurodegeneration and behaviour.
The Major and Specialist programmes in Neuroscience are administered jointly by Psychology and Biology and primarily include courses from these disciplines. They have been designated for students who are interested in pursuing graduate or medical training in Neuroscience. The Specialist Programme has a heavy laboratory component and students are encouraged to become actively involved in ongoing research. The subdisciplines represented at Scarborough Campus include behavioural neuroscience, neuroanatomy, neuropharmacology and cell biology (applied to the nervous system).

Specialist Programme in Neuroscience

High: G. Day (Office: 5505)
Note: Entry into this Programme is limited to a maximum of 25 students each year and will be based on grades obtained in PHYS11Y, BIO11Y, and CHM11Y. Ballooning for acceptance into the Programme will occur in the Spring term. Acceptance at the end of second year is possible depending on availability of space. Students should consult the Supervise of Studies.

The Programme requires completion of 4.5 full-course equivalents. Relevant
<table>
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<tr>
<th>Course Code</th>
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<td>BIOL101Y or BIOL107Y</td>
<td>Introduction to Biology or Biology Laboratory Science</td>
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<td>BIOL105Y</td>
<td>Animal Physiology</td>
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<td>BIOL108Y</td>
<td>Human Brain and Behavior</td>
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<td>BIOL110Y</td>
<td>General Chemistry</td>
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<td>BIOL112Y</td>
<td>Principles of Physics</td>
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<td>BIOL114Y</td>
<td>Introduction to Computing</td>
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<td>BIOL116Y</td>
<td>Electromagnetism and Solid State Devices</td>
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<td>BIOL118Y</td>
<td>Quantum Mechanics and Quantum Mechanics Lab</td>
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<td>BIOL120Y</td>
<td>Principles of Psychology</td>
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<td>BIOL122Y</td>
<td>Psychology of Aging and Developmental Psychology</td>
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<td>BIOL124Y</td>
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<td>BIOL130Y</td>
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<td>BIOL132Y</td>
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<td>BIOL134Y</td>
<td>Principles of Psychology</td>
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<td>BIOL201Y</td>
<td>Introduction to Psychology</td>
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<td>BIOL203Y</td>
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<td>BIOL205Y</td>
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<td>BIOL207Y</td>
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<td>BIOL209Y</td>
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<td>Social Psychology</td>
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<td>BIOL215Y</td>
<td>Cognitive Psychology and Cognitive Psychology Lab</td>
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<td>BIOL221Y</td>
<td>Experimental Psychology</td>
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<tr>
<td>BIOL223Y</td>
<td>Statistics and Data Analysis in Psychology</td>
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<tr>
<td>BIOL225Y</td>
<td>Psychology of Individual Differences</td>
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<tr>
<td>BIOL227Y</td>
<td>Psychotherapy and Psychotherapy Lab</td>
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<td>BIOL233Y</td>
<td>Language and Cognition</td>
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<tr>
<td>BIOL235Y</td>
<td>Neuropsychology and Neuropsychology Lab</td>
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<tr>
<td>BIOL237Y</td>
<td>Cognitive Psychology and Cognitive Psychology Lab</td>
</tr>
</tbody>
</table>

1. To be completed in the first year of full-time study (or equivalent):
   - BIOL101Y Introduction to Biology
   - BIOL107Y Introduction to Biology Laboratory
   - BIOL105Y Animal Physiology
   - BIOL110Y General Chemistry
   - BIOL112Y Principles of Physics
   - BIOL114Y Introduction to Computing
   - BIOL116Y Electromagnetism and Solid State Devices
   - BIOL118Y Quantum Mechanics and Quantum Mechanics Lab
   - BIOL120Y Principles of Psychology
   - BIOL122Y Psychology of Aging and Developmental Psychology
   - BIOL124Y Neurobiology and Neurobiology Lab
   - BIOL126Y Data Analysis in Psychology
   - BIOL128Y Introduction to Psychology
   - BIOL130Y Psychological Research Methods
   - BIOL132Y History and Philosophy of Science
   - BIOL134Y Principles of Psychology
   - BIOL201Y Introduction to Psychology
   - BIOL203Y Experimental Design in Psychology
   - BIOL205Y Learning and Memory
   - BIOL207Y Psychobiology and Psychobiology Lab
   - BIOL209Y Developmental Psychology
   - BIOL211Y Social Psychology
   - BIOL213Y Personality and Social Psychology
   - BIOL215Y Cognitive Psychology and Cognitive Psychology Lab
   - BIOL217Y Language and Cognition
   - BIOL219Y Neuropsychology and Neuropsychology Lab
   - BIOL221Y Experimental Psychology
   - BIOL223Y Statistics and Data Analysis in Psychology
   - BIOL225Y Psychology of Individual Differences
   - BIOL227Y Psychotherapy and Psychotherapy Lab
   - BIOL229Y Human Development and Human Development Lab
   - BIOL231Y Personality and Social Psychology
   - BIOL233Y Language and Cognition
   - BIOL235Y Neuropsychology and Neuropsychology Lab
   - BIOL237Y Cognitive Psychology and Cognitive Psychology Lab

2. To be completed by the end of the second year of full-time study (or equivalent):
   - BIOL134Y Principles of Psychology
   - BIOL201Y Introduction to Psychology
   - BIOL203Y Experimental Design in Psychology
   - BIOL205Y Learning and Memory
   - BIOL207Y Psychobiology and Psychobiology Lab
   - BIOL211Y Social Psychology
   - BIOL213Y Personality and Social Psychology
   - BIOL215Y Cognitive Psychology and Cognitive Psychology Lab
   - BIOL217Y Language and Cognition
   - BIOL219Y Neuropsychology and Neuropsychology Lab
   - BIOL221Y Experimental Psychology
   - BIOL223Y Statistics and Data Analysis in Psychology
   - BIOL225Y Psychology of Individual Differences
   - BIOL227Y Psychotherapy and Psychotherapy Lab
   - BIOL229Y Human Development and Human Development Lab
   - BIOL231Y Personality and Social Psychology
   - BIOL233Y Language and Cognition
   - BIOL235Y Neuropsychology and Neuropsychology Lab
   - BIOL237Y Cognitive Psychology and Cognitive Psychology Lab

3. To be completed by the third year of full-time study (or equivalent):
   - BIOL134Y Principles of Psychology
   - BIOL201Y Introduction to Psychology
   - BIOL203Y Experimental Design in Psychology
   - BIOL205Y Learning and Memory
   - BIOL207Y Psychobiology and Psychobiology Lab
   - BIOL211Y Social Psychology
   - BIOL213Y Personality and Social Psychology
   - BIOL215Y Cognitive Psychology and Cognitive Psychology Lab
   - BIOL217Y Language and Cognition
   - BIOL219Y Neuropsychology and Neuropsychology Lab
   - BIOL221Y Experimental Psychology
   - BIOL223Y Statistics and Data Analysis in Psychology
   - BIOL225Y Psychology of Individual Differences
   - BIOL227Y Psychotherapy and Psychotherapy Lab
   - BIOL229Y Human Development and Human Development Lab
   - BIOL231Y Personality and Social Psychology
   - BIOL233Y Language and Cognition
   - BIOL235Y Neuropsychology and Neuropsychology Lab
   - BIOL237Y Cognitive Psychology and Cognitive Psychology Lab

4. At least 1.0 full-course equivalent from the following:
   - PSY211Y Psychological Research Methods
   - PSY213Y Learning and Memory
   - PSY215Y Psychobiology and Psychobiology Lab
   - PSY217Y Psychobiology and Psychobiology Lab
   - PSY219Y Neuropsychology and Neuropsychology Lab
   - PSY221Y Experimental Psychology
   - PSY223Y Statistics and Data Analysis in Psychology
   - PSY225Y Psychology of Individual Differences
   - PSY227Y Psychotherapy and Psychotherapy Lab
   - PSY229Y Human Development and Human Development Lab
   - PSY231Y Personality and Social Psychology
   - PSY233Y Language and Cognition
   - PSY235Y Neuropsychology and Neuropsychology Lab
   - PSY237Y Cognitive Psychology and Cognitive Psychology Lab

5. At least 1.0 full-course equivalent from the following:
   - PSY211Y Psychological Research Methods
   - PSY213Y Learning and Memory
   - PSY215Y Psychobiology and Psychobiology Lab
   - PSY217Y Psychobiology and Psychobiology Lab
   - PSY219Y Neuropsychology and Neuropsychology Lab
   - PSY221Y Experimental Psychology
   - PSY223Y Statistics and Data Analysis in Psychology
   - PSY225Y Psychology of Individual Differences
   - PSY227Y Psychotherapy and Psychotherapy Lab
   - PSY229Y Human Development and Human Development Lab
   - PSY231Y Personality and Social Psychology
   - PSY233Y Language and Cognition
   - PSY235Y Neuropsychology and Neuropsychology Lab
   - PSY237Y Cognitive Psychology and Cognitive Psychology Lab

6. At least 1.0 full-course equivalent from the following:
   - PSY211Y Psychological Research Methods
   - PSY213Y Learning and Memory
   - PSY215Y Psychobiology and Psychobiology Lab
   - PSY217Y Psychobiology and Psychobiology Lab
   - PSY219Y Neuropsychology and Neuropsychology Lab
   - PSY221Y Experimental Psychology
   - PSY223Y Statistics and Data Analysis in Psychology
   - PSY225Y Psychology of Individual Differences
   - PSY227Y Psychotherapy and Psychotherapy Lab
   - PSY229Y Human Development and Human Development Lab
   - PSY231Y Personality and Social Psychology
   - PSY233Y Language and Cognition
   - PSY235Y Neuropsychology and Neuropsychology Lab
   - PSY237Y Cognitive Psychology and Cognitive Psychology Lab

7. Students planning on graduate work in Neuroscience are advised that undergraduate courses in Physics and Calculus may be required for this graduate program.

Major Programs in Neuroscience

- Supervisor: O. Ivy (Office: 359)
- The program requires seven full-course equivalents. Students who wish to complete a four-year degree are encouraged to include in the electives below the following courses: CMB104Y and CMB105Y so that they would be eligible for the Specialist Program.

- The following outlines the major programs and the most advantageous sequencing for the Major Program in Neuroscience.

- Students seeking supervision off campus are further advised to verify first with the Supervisor of Studies that the prospective project supervisor is currently holding a cross-appointment at the University of Toronto.
- Prerequisite: These full-course equivalents in Psychology or Biology; permission of instructor. Exclusions for NOCS90: PSY105Y, BIO201Y, NOCS90: PSY105Y, BIO201Y, NOCS90: PSY105Y, BIO201Y, NOCS90: PSY105Y, BIO201Y. Supervision by a faculty member.

- NEURO111Y 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). 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 investigations. The individual research project will culminate in a written report in the form of a thesis and a defense of that report in the spring. Before enrolling, students must obtain the signature of their intended supervisor.
- Students seeking supervision off campus are further advised to verify first with the Supervisor of Studies that the prospective project supervisor is currently holding a cross-appointment at the University of Toronto.
- Prerequisite: Satisfactory completion of fifteen full-course equivalents in any discipline, including NOCS70: Research Methods and NOCS80: Advanced Seminar in Psychology or Biology, except that one full-course equivalent in Psychology or Biology may be assigned as research supervisor.
- Exclusions: PSYD09Y, BIO201Y
- Session: Winter Day
- Supervision by a faculty member.

- NEURO112Y Supervised Study in Neuroscience
- A reading or research project. These courses provide an opportunity to investigate an area in depth after completing basic coverage in regularly scheduled courses. They are not intended as substitutes for advanced courses in fields where these are available.
- The student must demonstrate that 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/or data collection will be required. Such a project will culminate in a written submission. These courses cannot be repeated for credit.
- Students are advised that they must obtain approval from the supervising instructor before registering for these courses.
Philosophy

(B.A.)

Discipline Representative: Lynda Lange
(287-7153)

Philosophy consists of a critical analysis of the ideas and concepts fundamental to science, society, religion, morality, and art. Its aim is to scrutinize the basic notions in these areas, to clarify the principles on which they are founded, to evaluate such beliefs for their soundness, and to explore their implications for a comprehensive understanding of the world in which we live. Philosophy originated in the desire to know, and its value is associated with the systematic development of a questioning attitude and critical awareness.

PHIL001Y is recommended as an introduction to the field of philosophy in general. It is required for all Majors and Specialists in Philosophy. B-level courses are more specialized in content, but they are open to anyone interested in the topic of the course. All C-level Philosophy courses carry at least half course pre-requisite in Philosophy.

Course offerings in Philosophy form a two or three year cycle; courses not offered in one academic year will normally be available in one of the following years. PHIL001Y, PHIL010, PHIL020, PHIL030, PHIL040, PHIL080 and PHIL090 are normally offered every year. It should be noted that in almost all subject areas, Fall/Spring sequences are offered which, when combined, provide the equivalent of a full course whose first half is at the B-level, and whose second half is at the C-level. Courses in a sequence are usually scheduled in the same time slot. The B-series of courses may be taken in either sequence, subject to availability and the number of students. The section number follows the course number (e.g., PHIL090:001).

Note to Majors and Specialists: Most of the philosophy courses can be offered only on a two- or three-year rotation. The courses listed as Not Offered this year are likely to be offered the following year, and some of this year’s offerings will be dropped to make room for them. You should try to play your programs a year ahead and be sure of getting the courses you want. See the Discipline Representative for further information. Wednesday 4-6 p.m. is reserved for the Senior Seminar (PHIL099Y).

Cognate Courses

Philosophy students should seriously consider the advantages of studying a language, especially French, German, Clerk, or Latin. A sequence of language courses will give students access to much philosophical thought in its original language and to many secondary sources not available in English. There are a variety of courses in Classics, English, Fine Art, History, and Humanities which will help to supplement the Programmes of many students. In particular, students should consider the following courses: HUM301Y: Prolegomena; HUM401Y: European World, AST005Y: Introduction to Astronomy. Such courses provide important intellectual and historical background for the study of Philosophy.

Specialized Programme in Philosophy

Supervisor: Lynda Lange (287-7153)

Students must complete at least nine full course equivalents in philosophy including:

1. PHIL001Y Fundamental Questions of Philosophy
2. PHIL050Y Symbolic Logic
3. One of the following:
   PHIL080Y Ethics I
   PHIL090Y Political Philosophy
4. One of the following:
   PHIL010Y Belief, Knowledge and Truth
   PHIL020Y Existence and Reality
5. One of the following:
   PHIL030Y Philosophy of Science
   PHIL040Y Philosophy of Language
   PHIL050Y Theories of the Mind
6. PHIL060Y Plato I
7. PHIL070Y Aristotle I
8. PHIL080Y Early Modern I
9. PHIL090Y Late Modern I
10. PHIL100Y Plato II
11. PHIL110Y Aristotle II
12. PHIL120Y Early Modern II
13. PHIL130Y Late Modern II

Three more full course equivalents in philosophy, 1.5 of which must be at the C or D level.

FREELANCE

in some cases students combining a Major Programme in Philosophy with a Programmes in another discipline may elect to modify the Major Programme. Students electing modifications must have the approval of the discipline representative.

PHIL010Y Fundamental Questions of Philosophy

Telecourse ID # 2451063

A discussion of some of the fundamental questions of philosophy: what is good reasoning? What is moral and can it be justified? Is it reasonable to adhere to a religious belief? What is knowledge? Are practical 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 been asked for centuries. The course will be divided into the following lecture sections: 101, 102, 130.

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.

Session: Winter Day, Winter Evening

Offered every year

PHIL015Y Ethics I

Telecourse ID # 2452015

A study of philosophical problems and concepts in ethics, such as the relationship of values, the justification of morality, moral skepticism, ethical egoism, utilitarianism, deontology.

Exclusion: PHIL275, 276

Offered 1997/98

PHIL020Y Philosophy of Art

Telecourse ID # 2452035

What is art? We will examine theories of the nature of art together with critiques of each of these theories. Our exploration will begin with theories from ancient Greece and will conclude with contemporary theories, and will include an examination of theories which proclaim that "art is dead." Students should be prepared to participate in some field trips as we spend some time outside the classroom becoming acquainted with various art forms.

Session: Winter Day

S. Sedley

PHIL025Y Social Issues

Telecourse ID # 2452055

An examination of the moral questions surrounding some of the following: abortion, capital punishment, human sexual relations (homosexuality, adultery, etc.), experience, ecology, civil disobedience, policies towards the Third World and towards the poor.

Exclusion: PHIL381

Session: Summer Day

D. Cook

PHIL030Y Political Philosophy

Telecourse ID # 2452035

A study of the philosophical problems of the state and society.

Exclusion: PHIL365

Session: Winter Day

L. Lange

PHILB15Y Topics in the Philosophy of Law

Telecourse ID # 2452113

A discussion of right and wrong, justice, legality, and conscience.

Session: Summer Evening

TBA
PHIL213F Philosophy and Feminism
Telephone ID: 2452135
Study and discussion of a variety of issues in contemporary feminist philosophy. Session: Winter Day L. Longe

PHIL220F Belief, Knowledge, and Truth
Telephone ID: 2452203
A study of such questions as the problem of skepticism, the scope and limits of human knowledge, the subjectivity of perception, rationality, and theories of truth.
Exclusions: PHIL230
Session: Winter Day S. Sedlak
Offered every year

PHIL240F Existentialism
Telephone ID: 2452403
A study of the views and approaches characteristic of such writers as Kierkegaard, Husserl, Heidegger and Sartre.
Exclusion: PHIL220
Session: Winter Day G. Nagel

PHIL245F Philosophy of the Early Modern Age
Telephone ID: 2452453
Philosophy in the seventeenth century. The political, religious, and scientific developments in the sixteenth century upset the medieval reconciliation of faith and reason. In this climate of uncertainty, the philosophers of the seventeenth century try to find a new reconciliation. The course will be a survey of their efforts.
Session: Winter Day M. Kingswell
Offered 1997/98

PHIL245S Philosophy of the Late Modern Age
Telephone ID: 245245S
A study of the thought of Hegel, Schopenhauer and Nietzsche, Wittgenstein, and other philosophers whose work is fundamental to the age in which we presently live.
Session: Winter Day G. Nagel
Offered 1997/98

PHIL250F Symbolic Logic I
Telephone ID: 2452503
An introduction to formal techniques of reasoning, sentential logic, and quantification theory or predicate logic.
The emphasis is on appreciation and practice in techniques, for example, for formal analysis of English statements and syllogisms for construction of clear and rigorous proofs.
Exclusion: (MPH300), PHIL245
Session: Winter Evening, Summer Evening TBA
Offered every year

PHIL285 The Art of Thinking
Telephone ID: 2452853
A study of methods and techniques for developing effective reasoning and argument, and an exploration of the patterns of thinking that characterize English thought.
This course aims to develop skill in identifying ambiguities, evaluating premises, constructing counter-examples, and reconstructing 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, no matter what their programme.
Exclusions: PHIL235, TRN200H
Session: Summer Evening TBA

PHIL260F Metaphysics
Telephone ID: 2452603
A consideration of problems in metaphysics.
Metaphysics is the attempt to see "how things hang together" in the most general possible sense of this phrase. Some of the issues we will cover: the creation and form of the universe, the nature of truth, the ground of possibility and necessity and their relation and the problem of freedom of the will.
Exclusion: PHIL231
Session: Winter Day TBA
Offered every year

PHIL215S Philosophy of Religion
Telephone ID: 245215S
A study of such topics as the nature and existence of God, immortality, God and morality, and religious language and symbolism.
Session: Summer Evening TBA

PHIL281S Theories of Mind
Telephone ID: 2452815
An examination of questions concerning the nature of mind and thinking.
Traditionally, the mind has been conceived as a mysterious component of human beings, existing in relative independence from the conditions of physical life. Modern research into the structure and function of the brain has thrown doubt on this view, and work in computer science suggests that minds and thinking can even be attributed to machines.
We will examine the nature of the mind, and such questions as what thinking is, and whether or not machines can have a mind.
Exclusions: PHIL240, 242
Session: Winter Day S. Sedlak
Offered every year

PHIL294F Plato II
Telephone ID: 2452943
A continuation of PHIL294.
Prerequisite: At least one-half course in Philosophy.
Session: Winter Day M. Kingswell
Offered 1997/98

PHIL295F Aristotle II
Telephone ID: 2453295
A continuation of PHIL295.
Exclusion: (PHIL843)
Prerequisite: At least one-half course in Philosophy.
Session: Winter Day W. Graham
Offered 1997/98

PHIL285S Seminar in Philosophy: Feminism
Telephone ID: 2453853
Selected topics in the philosophical tradition in dialogue with current issues in contemporary feminist theory. These may include: critical discussion of themes from Plato to Freud which have been used to justify the subordination of women; theories of how gendered individuals are created; feminist conceptions of self, autonomy, ethics, or the state.
Exclusion: PHIL267
Prerequisite: Two B-level half-courses in Philosophy.
Session: Winter Day L. Longe

PHIL285S Seminar in Philosophy: Friedrich Nietzsche
Telephone ID: 2453853
An examination of Nietzsche, one of the most important and controversial philosophers of the modern age. In the past two decades Nietzsche's writings have steadily gained importance as being relevant to present philosophical concerns and have inspired many contemporary philosophers. We will examine Nietzsche's major writings and his critical philosophy including his idea of will to power, the superman, eternal recurrence of all things, Dionysus philosophy, etc.
Session: Winter Day W. Graham

PHIL285S Seminar in Philosophy: Liberalism and its Critics
Telephone ID: 2453953
An examination of recent works by liberal political theorists, together with criticism of them by thinkers from both left and right.
In recent years, liberalism's attempt to secure political legitimation by way of abstraction from moral conflict has prompted many philosophers to challenge the liberal view of the self, of rationality, and of moral commitment. These "communitarians" criticize that liberalism works only at the cost of emptying political life of meaning. We will assess the charge. Authors to be studied include Rawls, Kymlicka, Sandel, Rorty, Lyndon and Taylor.
Prerequisite: PHIL210 or permission of instructor.
Session: Winter Day M. Kingswell

PHIL285S Seminar in Philosophy: TBA
Telephone ID: 2453953
A selection will be available in Spring 1996.
Session: Winter Day TBA

PHIL285F Seminar in Philosophy: French Political Thought
Telephone ID: 2453943
A study of contemporary political thought from France.
Session: Winter Day D. Cock

PHIL219F Senior Seminar
Telephone ID: 2454013
A discussion of topics of current research interest of the philosophy faculty at Scarborough College. The course will focus on a or 5 smaller issues drawn from a traditional range of philosophical topics,
such as: metaphysics, ethics, political philosophy, epistemology and value theory. The course is designed to provide students, particularly but not exclusively, specialists, a forum in which they can participate in current philosophical research and engage directly with the faculty in a small group setting. The course will comprise the following topics:

- Philosophy of Education
- Aesthetics
- Plato and His Predecessors I
- Aristotle I
- The Art of Thinking
- Philosophy of Science
- Philosophy of Language
- Ethics
- Philosophy of the Early Modern Age I
- Philosophy of the Later Modern Age II
- Symbolic Logic II
- Modal Logic and Probability
- Theoretical Foundations of Biology I
- Theoretical Foundations of Biology II
- Contemporary Analytic Philosophy

This course is designed for students who wish to engage in advanced-level work on a well-defined topic. It is a prerequisite for the Program in Special Studies, and students who take this course will be responsible for a written term paper on a topic approved by the course supervisor. The course will consist of a maximum of six 3-credit hours.

**Courses Not Offered in 199/99**

**PHIL 1155S** Philosophy of Education

**PHIL 1175S** Aesthetics

**PHIL 2455S** Plato and His Predecessors I

**PHIL 2495S** Aristotle I

**PHIL 2515S** The Art of Thinking

**PHIL 2605S** Philosophy of Science

**PHIL 2655S** Philosophy of Language

**PHIL 2665S** Ethics

**PHIL 2695S** Philosophy of the Early Modern Age I

**PHIL 3655S** Philosophy of the Later Modern Age II

**PHIL 2855S** Symbolic Logic II

**PHIL 2865S** Modal Logic and Probability

**PHIL 2755S** Theoretical Foundations of Biology I

**PHIL 2795S** Theoretical Foundations of Biology II

**PHIL 2856S** Contemporary Analytic Philosophy

The Program in Special Studies offers courses in philosophy, including but not limited to:

- Philosophy of Education
- Aesthetics
- Plato and His Predecessors I
- Aristotle I
- The Art of Thinking
- Philosophy of Science
- Philosophy of Language
- Ethics
- Philosophy of the Early Modern Age I
- Philosophy of the Later Modern Age II
- Symbolic Logic II
- Modal Logic and Probability
- Theoretical Foundations of Biology I
- Theoretical Foundations of Biology II
- Contemporary Analytic Philosophy

These courses are designed for students who wish to engage in advanced-level work on a well-defined topic. It is a prerequisite for the Program in Special Studies, and students who take this course will be responsible for a written term paper on a topic approved by the course supervisor. The course will consist of a maximum of six 3-credit hours.
MATB44Y Techniques of the Calculus of Several Variables II

Third year:

CHIM262Y Organic Chemistry I

and other

CHIM255Y Physical Chemistry II

Fourth year:

CHIM361H Organic Chemistry I

Biocommchemistry

Fifth year:

CHIM447H Biocommchemistry

and other

CHIM448H Biocratic Chemistry

Specialist Programme in Computer Science

Supervisor: Dr. Capit (297-7252)

This program provides a broad-based education in computer science. It prepares students for professional positions in the computer field, and for graduate study in computer science.

First year:

CS1A58ES Introduction to Computer Science

MATA24Y Linear Algebra

PHYA24Y Principles of Physics

Second year:

EESA24Y General Chemistry

First year:

CEBA24Y Beautiful Earth: An Introduction to Earth Science and Environmental Through Time

MATA24Y Principles of Physics

PHYA115 Electromagnetism and Solid State Devices
### Specialist Programme in Computer Science and Mathematics

**Supervisor:** G. Capi (287-7255)

This Programme provides 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 may wish to pursue a career in teaching or in government and industry. It can also lead to graduate study.

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<td>CSCI25F</td>
<td>Effective and Efficient Computing</td>
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<td>CSCI26F</td>
<td>Data Structures and Algorithm Analysis</td>
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<td>Program Design and Algorithm Analysis</td>
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<td>CSCI28F</td>
<td>Discrete Mathematics</td>
</tr>
<tr>
<td>CSCI29F</td>
<td>Computer Organization</td>
</tr>
<tr>
<td>CSCI30F</td>
<td>Principles of Electric Circuits</td>
</tr>
<tr>
<td>CSCI31F</td>
<td>Electromagnetics and Solid State Devices</td>
</tr>
<tr>
<td>CSCI32F</td>
<td>Introduction to Probability Theory and Mathematical Statistics</td>
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</tbody>
</table>

*PHY110 is not an acceptable substitute.*

**Specialist Programme in Computer Science and Statistics**

**Supervisor:** S. Chawla (287-7252)

The Specialist Programme in Computer Science and Statistics provides a student with the computational and statistical background required in many applications of these fields. The Programme prepares students for employment opportunities in business, government and education and for further graduate study. This Programme is also an option available in the Co-op Computer Science and Physical Sciences Programme. See listing under Co-op.

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<td>CSCI32F</td>
<td>Introduction to Probability Theory and Mathematical Statistics</td>
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</table>

*PHY110 is not an acceptable substitute.*
Fourth year:

CSCC5115 Numerical Approximation, Inheritance and Ordinary Differential Equations
CSCC6455 Effective and Efficient Computing
PHYC2115 Classical and Quantum Waves
PHYC2215 Structure of Matter
One additional F.C.E. from other Carleton Physical Sciences, Scarborough courses
PSCD1201P The Physical Sciences in Contemporary Society
PSCD1205 Current Questions in Mathematics and Science

*PHYS 110 is not an acceptable substitute.

Specialist (Co-operative) Programme in Computer Science and Physical Sciences

Course Coordinator: C. Capit (287-7253)
Supervisor of Studies: C. Dyer (287-7206)

The Co-operative Programme in Computer Science and Physical Sciences is a work-study programme which combines academic studies in computer science, and other disciplines in the physical sciences with work placements in public and private enterprises. The programme alternates study during the regular academic term (September to May) with work terms during the summer term (May to August).

The programme prepares students for permanent employment with government and business enterprises concerned with research and technology as well as for graduate study in Computer Science. Graduates receive a four-year B.Sc. with a specialist certification in Computer Science and Physical Sciences.

Admission to the Programme

a. Applicants from Carleton's 13 OAC programmes (or equivalent) should indicate their choice of Scarborough College and the Co-operative Programme in Computer Science and Physical Sciences on the Application for Admission to an Ontario University. They will then be sent a special application form for admission to a Co-operative programme.

b. From First-Year University. Students accepted by the University and College may apply whether or not they have completed the first year curriculum. The timing of the work placement will depend upon the particular university courses taken by the students (Co-operative). Admissions are granted on the basis of the applicant's academic performance, background in relevant subjects, and a letter of reference from a high school teacher or university instructor. An interview may be required. Emphasis is limited and only a small number of applicants can be accepted each year. A decision about admissions is normally made annually in May and early June. To be considered for the first round of selection, co-op applications must be received by the University no later than April 15. Therefore it is essential that the applicant apply to the University at least six weeks prior to this date.

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

The Specialist (Co-operative) Programme in Computer Science and Physical Sciences

This programme requires twenty F.C.E.'s (four years) of study and two work terms of four months each. Exceptionally, with the agreement of the Co-ordinator, a third work term may be allowed. Students are eligible for their first work term after their first two years of study. Work placements are arranged by the Office of Co-operative Programmes but must be won by students in competition with all applicants for the position.

Performance on work terms will be evaluated by both employer and co-ordinator. Students must also submit for evaluation a report for each work term.

To remain standing in the programme, to be eligible for a work term, and to receive specialist certification upon graduation a student must:
- maintain a cumulative grade point average of at least 2.5
- receive satisfactory evaluations for work term performance and work term
- be registered as a full-time student during study terms.

There are two courses of study offered within this Co-operative Programme: Option A: Computer Science and Physics and Option B: Computer Science and Statistics. For programme outline, please refer to the Physical Sciences Scarborough Specialist Programme Computer Science and Physics, page 101, and Specialist Programme Computer Science and Statistics, page 161.

Note that courses need not be taken in exactly the indicated order, but if an alternative sequence is followed, care must be taken to ensure that prerequisites are met and that required courses are taken.

EACH STUDENT'S PROGRAMME MUST BE APPROVED OF BY THE SUPERVISOR OF STUDIES.

NOTE: STUDENTS ARE INDIVIDUALLY RESPONSIBLE TO ENSURE THAT THEY HAVE CORRECTLY COMPLETED PROGRAMME AND DEGREE REQUIREMENTS FOR GRADUATION.

Eligibility for work placements

To compete for work term placement a student must be in good standing in the Programme and must have completed at least ten F.C.E.'s. Normally, students return to their studies after each work term (and must be registered in courses after the completion of their last work term).

CSCP01-C091 Computer Science and Physical Sciences Co-op Work Term

Work terms are an integral part of the Co-op curriculum. Practical work experience is an appropriate, related field is alternated with study terms to enhance academic studies and develop professional and personal skills. Work term reports are required at the completion of each work term.

Continuation in a Co-op Programme is based on a student's ability to meet both the academic and work term requirements. To be eligible for work terms, students must be in good standing in the Programme and must have completed 10 courses. Course credits of 0.5 F.C.E. is granted for each four month work period. Work term credits are in addition to the 20 full-course degree requirements and are graded on a Credit, No Credit system. There are no additional course fees for work terms.

Specialist (Co-operative) Programme in Environmental Sciences

Course Coordinator: N. Williams (287-7547)
Supervisor of Studies: T. Price (287-7327)

The Co-operative Programme has a broad base in environmental disciplines such as Biology, Geography and Geology, but emphasizes fundamental sciences such as Physics, Mathematics and Chemistry. The programme is interdisciplinary in nature, and includes courses in other relevant disciplines, such as Environmental Economics and Environmental Law. One of the major thrusts of the programme is the importance of fieldwork and practical experience. Many of the academic courses reflect this, having strong field components; some are conducted in the field. As an extension of this, the Co-operative Programme placement requirement is that students must complete the necessary practical experience. There are obvious linkages between the Co-operative Environmental Science programme and other Co-operative programmes such as the International Development Studies programme; the linkages between development and environmental issues are already generally acknowledged. The overall purpose of the programme is to provide education and training which will produce highly qualified scientists and planners with good practical and field experience through coursework, work placement, with a view to employment in research, teaching, consultancy, government agency or regulatory work.

The course requirements for this programme are identical to those of the Specialist Programme in Environmental Science while including work-study experience through terms following completion of second year, and completion of third year. The work study terms, during the two summer terms, are intended to provide actual experience in the field of environmental science in placements that are judged to be supportive of the student's participation in the Programme.

Admission to the Programme

Applicants may apply to the programme directly from secondary school or may apply as transfer students from another university. The timing of work placements for students who receive transfer credit will depend upon the particular university courses completed. When applying, applicants must indicate the special code for this Scarborough Campus programme on the Application For Admission To An Ontario University. Once the application has been accepted, candidates are sent an additional application form. The application is due by April 15. If no response is received by April 15 then it is essential that the applicant apply to the University at least six weeks prior to this date.

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

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

For course outlines please refer to the Specialist Programme in Environmental Science.
Fourth year: PSCD00F The Physical Sciences in Contemporary Society

*PHY110 is not an acceptable substitute.

Special Programme in Mathematics and Statistics
Supervisor: S. Jain (287-7252)
The Special Programme in Mathematics and Statistics provides a student with the mathematical and statistical background for a sound understanding of statistical theory and practice. The Programme prepares students for employment opportunities in business, government and education and for graduate study.

First year:
CSG45F Introduction to Computer Science
MATA04Y Linear Algebra
MATA20Y Calculus
PHYA01Y Principles of Physics*

First or second year: CSCI070 - Computer Applications.

Second year:
MATH10F Geometry I
MATH10G Differential Equations I

or
MATH10F Algebra I
MATH10G Differential Equations II

Third year:
MATH10F Calculus Theory
MATH20G Differential Equations II

or
MATH10F Calculus Theory
MATH20G Differential Equations I


MATHC06F Complex Analysis I
MATHC08S Complex Analysis II
Additional Mathematics 1 F.C.E.

or

STAC57S, STAC58P, STAC67F
or

STAC42S, STAC67F, STAC68F

PSCD00F The Physical Sciences in Contemporary Society

PSCD02S Current Questions in Mathematics and Science.

1 half F.C.E. from C level Statistics courses at Scarborough, CSCI54F, 300 and 400 level Statistics courses on the St. George campus.

*PHY110 is not an acceptable substitute.

Major Programme in Astronomy and Physics
Supervisor: C. C. Dyer, M. J. G. Lee

This Programme requires 16 F.C.E.s. The Programme, based on the course content of the Mathematics and Statistics Program, provides a broad introduction to Astronomy, Chemistry and Physics based upon a sound mathematical foundation. It is intended for students who may wish to pursue a career in teaching or in one or more of the Physical Sciences or to acquire a basic understanding of the Physical Sciences before undertaking a career in government or industry.

First year:
ASTA03Y Introduction to Astronomy
CSA802Y Chemistry
CSCI070 - Computer Applications.

PHYA01Y Principles of Physics*

Second year:
ASTB05F Celestial and Classical Mechanics
CMB11Y Analytical Chemistry I
CSCI070 - Computer Applications
MATHB1F Techniques of the Calculus of Several Variables I

PHYB21S Electricity and Magnetism

PHYB25S Techniques of the Calculus of Several Variables II

PHYC1F Classical and Quantum Waves

PHYS30S Modern Technology

*PHY110 is not an acceptable substitute.
**Major Programmes in Chemistry**

**Supervisor:** A. Wernet (287-7224)

It offers the possibility of obtaining an introduction to all of the subdisciplines of chemistry. Students should complete the following eight courses:

**First year:**

- **CHEM22Y** General Chemistry
- **MATA25Y** Calculus
- **PHYA11Y** Principles of Physics*
- **PHYA12Y** Dynamics of Classical Systems
- **PHYA13Y** Solid State Devices

**Second and Third years:** One of the following sets of options must be taken:

**Inorganic/Organic:**

- **CHEM11Y** Analytical Chemistry I
- **CHEM23Y** Inorganic Chemistry I
- **CHEM44Y** Organic Chemistry I
- **CHEM53Y** Inorganic Chemistry II
- **CHEM56Y** Inorganic Chemistry Laboratory
- **CHEM64Y** Organic Chemistry II

**Physical Organic:**

- **CHEM12Y** Physical Chemistry I
- **CHEM14Y** Physical Chemistry II
- **MATH41F** Techniques of the Calculus of Several Variables I
- **MATH42S** Techniques of the Calculus of Several Variables II
- **CHEM22F** Physical Chemistry II
- **CHEM26F** Physical Chemistry Laboratory
- **CHEM34Y** Organic Chemistry II

**Physical Inorganic:**

- **CHEM11Y** Analytical Chemistry I
- **CHEM23Y** Inorganic Chemistry I
- **CHEM44Y** Organic Chemistry I
- **CHEM53Y** Inorganic Chemistry II
- **CHEM56Y** Inorganic Chemistry Laboratory
- **CHEM64Y** Organic Chemistry II

**Physical Organic:**

- **CHEM12Y** Physical Chemistry I
- **CHEM14Y** Physical Chemistry II
- **MATH41F** Techniques of the Calculus of Several Variables I
- **MATH42S** Techniques of the Calculus of Several Variables II
- **CHEM22F** Physical Chemistry II
- **CHEM26F** Physical Chemistry Laboratory
- **CHEM34Y** Organic Chemistry II

**and either:**

- **CHEM22F** Physical Chemistry II
- **CHEM26F** Physical Chemistry Laboratory

**Major Programmes in Biochemistry**

**Supervisor:** J. Potter (287-7223)

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

Students should complete the following seven and one-half courses:

**First year:**

- **BMA03Y** Introductory Biology
- **BMA02Y** General Chemistry

**Second and Third years:**

- **CHEM11Y** Analytical Chemistry
- **CHEM14Y** Inorganic Chemistry I
- **CHEM24Y** Organic Chemistry I
- **CHEM56Y** Inorganic Chemistry II
- **BIO33Y** Introductory in Biochemistry
- **BIO36H** Lab in Biochemistry

At least one of:

- **BIO40Y** Basic Microbiology
- **BIO41Y** General and Comparative Physiology
- **CHEM22Y** Physical Chemistry I
- **CHEM52Y** Physical Chemistry II
- **PHYA12Y** Dynamics of Classical Systems

**Major Programmes in Environmental Science**

**Supervisor:** T. Price (287-7227)

The Major Programme is designed to give students a general background in the basic principles and applications of Environmental Science. It is intended for students with an interest in Environmental Science, but who do not intend to specialize in the field. It is appropriate for students pursuing a three-year degree in Environmental Science or those pursuing a four-year degree with more than one area of specialization.

**First year:**

- **EESA01F** Introduction to Environmental Science
- **EESA02F** Introduction to Environmental Geography
- **EESA03F** Planet Earth: An Introduction to Earth Science and Environments Through Time
- **EESA04F** Life on Earth: Introductory Biology for Environmental Scientists
- **PHYA10F** Dynamics of Classical Systems

**Second year:**

- **EESA08F** Principles of Sedimentology and Stratigraphy
- **EESA09F** Principles of Geomorphology
- **EESA10F** Principles of Hydrology
- **EESA11F** Fundamentals of Soil Science

**Third year:**

- **EESA12F** Environmental Impact Assessment
- **EESA13F** Environmental Economics and Law

**Major Programmes in Mathematics**

**Supervisor:** H. S. Rosenfeld (287-7268)

**First year:**

- **MATA01Y** Calculus
- **MATA04Y** Linear Algebra
- **CSCA08F** Introduction to Computer Science

**Second and Third years:**

- **MATH41F** Techniques of the Calculus of Several Variables I
- **MATH42S** Techniques of the Calculus of Several Variables II

**Second and Third years:**

- **MATH43F** Linear Algebra
- **MATH44F** Techniques of the Calculus of Several Variables I
- **MATH45F** Techniques of the Calculus of Several Variables II

**Mathematics:**

- **MATH10Y** Calculus
- **MATH11Y** Linear Algebra
- **CSCA08F** Introduction to Computer Science

**First or Second year:**

- **EESA07F** Plumbing Earth Science and Environments Through Time
- **EESA08F** Principles of Sedimentology and Stratigraphy
- **EESA09F** Principles of Geomorphology
- **EESA10F** Principles of Hydrology
- **EESA11F** Fundamentals of Soil Science

**Third year:**

- **EESA12F** Environmental Impact Assessment
- **EESA13F** Environmental Economics and Law

**Major Programmes in Environmental Science**

**Students must choose one of the following options:**

**Mathematics:**

- **MATH10Y** Calculus
- **MATH11Y** Linear Algebra
- **CSCA08F** Introduction to Computer Science

**First or Second year:**

- **EESA07F** Plumbing Earth Science and Environments Through Time
- **EESA08F** Principles of Sedimentology and Stratigraphy
- **EESA09F** Principles of Geomorphology
- **EESA10F** Principles of Hydrology
- **EESA11F** Fundamentals of Soil Science

**Second and Third years:**

- **MATH41F** Techniques of the Calculus of Several Variables I
- **MATH42S** Techniques of the Calculus of Several Variables II

**Statistics:**

- **MATA04Y** Linear Algebra
- **MATA05Y** Calculus

**First year:**

- **CSCA08F** Introduction to Computer Science
- **CSCA09F** Introduction to Computer Science
- **MATA04Y** Linear Algebra
- **MATA05Y** Calculus
appropriate, outside guest lecturers will participate in the course.

Physics 171

Physics (B.Sc.)

Discipline Representative: M.J.O. Lee (267-7240)

Physics is the study of the basic laws that describe how material objects move and influence each other. The effect of a star on the position of a planet or the motion of a satellite, the effect of a molecule on a neighboring atom, or of an atomic nucleus on an electron, may be accurately described in terms of the general laws of physics. Although Newton's laws of motion adequately describe some of these situations, in most cases it is necessary to apply the more recently discovered relationships of these laws - quantum mechanics and the theory of relativity together with the understanding of electromagnetic and magnetic effects so beautifully synthesized in Maxwell's theory of electromagnetic waves. From these basic principles many of the properties of gases, liquids, solids, plasmas, and nuclear matter can be understood in terms of the interactions among the individual units of which these forms of matter are composed. Physics allows us to describe the properties of light, sound and heat up to the point where these enter our senses and of x-ray, radio, cosmic and other radiations of which we are not directly aware. The remarkable properties of some materials under extreme conditions of temperature and pressure, and of other materials when manipulated at the molecular 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, requires some study both of mathematics and of the techniques that are needed in the performance of accurate experiments.

At Scarborough College, a student interested in Physics can take the Specialist Programme in Astronomy, Physics and Mathematics, the Specialist Programme in Computer Science and Physics, the Specialist Programme in Physical Sciences, or the Major Programme in Astronomy and Physics. In addition, there is a Co-operative Programme in Computer Science and Physical Sciences.

NOTE: There are three introductory courses in physics, each of which is accompanied by a laboratory. PHYS101Y Principles of Physics is a full-year course with a calculus prerequisite, which makes greater use of mathematics and gives greater opportunity to develop problem solving skills, while PHYS102F Dynamics of Classical Systems and PHYS115 Electromagnetism and Solid State Devices are half-year courses with no such requirement. Students offer a broader coverage of physical concepts and their applications. PHYS102F and PHYS115 are intended primarily for students who are not specialists in the Physical Sciences.

Students wishing to take a full year of physics may choose to take either PHYS101Y or PHYS115. Students wishing to take a half year of physics may take either PHYS102F or PHYS115.

Please refer to the Physical Sciences section of the Calendar for the following Programmes.

Specialist Programme in Astronomy, Mathematics and Physics

Specialist Programme in Computer Science and Physics

Specialist (Co-operative) Programme in Materials Science and Physical Sciences

Major Programme in Astronomy and Physics

First or Second year: CSCB705 - Computer Applications

Second and Third years: MATB41F: Techniques of the Calculus of Several Variables I
MATB42S: Techniques of the Calculus of Several Variables II
STAT22F: Statistics
STAT475: Introduction to Probability Theory and Mathematical Statistics

PSC205F: Chaos, Fractals and Complexity

PSCC01S: Physical Principles of Modern Technology

PSCD01F: The Physical Sciences in Contemporary Society

PSCD02S: Current Questions in Mathematics and Science

PSCD03S: General Issues in Physical Sciences

PSCD03V: General Issues in Physical Sciences

PSCD03W: General Issues in Physical Sciences

PSCD04S: General Issues in Physical Sciences

PSCD05S: General Issues in Physical Sciences

PSCD06S: General Issues in Physical Sciences

PSCD07S: General Issues in Physical Sciences
Major Programme in Physics
The Major Programme in Physics is no longer offered. Students currently registered will be allowed to complete it.

PHYS401 Principles of Physics
Telephone ID #: 24810163
A study of classical mechanics: potential energy, conservation laws, rotational dynamics, planetary motion, harmonic vibrations, wave equations; thermodynamics: temperature, entropy, ideal gases; special theory of relativity; Lorentz transformation, relativistic mechanics, 4-vectors; electricity and magnetism: Maxwell's equations; electromagnetic waves; quantum mechanics; Schrödinger's equation in simple systems, lasers, electronic states in metals and semiconductors, the structure of the nucleus. Two lectures and one tutorial per week, and a three-hour laboratory every second week. Exclusion: PHYS402, PHYS403, PHYS110, PHYS21; PHYS110, 130, 138, 150. Corequisites: MAT2A6 or (MAT2A7) or (MAT2A5) Session: Winter Day

PHYS410 Dynamics of Classical Systems
Telephone ID #: 24811053
An investigation of classical mechanics: statics, laws of motion and gravitation, energy and momentum, angular motion, planetary motion; mechanics of fluids: density and elasticity, thermal expansion, fluids at rest, fluids in motion; and thermodynamics: kinetic theory, temperature, internal energy, entropy, the laws of thermodynamics. Two lectures and one tutorial per week, and a three-hour laboratory every second week. Exclusion: PHYS110, PHYS122, PHYS21; PHYS110, 130, 150. Corequisites: OAC Calculus and one of OAC Algebra & Geometry or OAC Finite Session: Winter Day

PHYS115 Electromagnetism and Solid State Devices
Telephone ID #: 24811153
An introduction to the fundamentals of classical and solid-state electrical devices. Electromagnetism: electric fields, capacitance, current and resistance, magnetic fields, Lorentz force, electromagnetic induction, back-emf. Alternating Current: sinusoidal and waves, AC circuits, electromagnetic waves, propagation of pulse and diffraction. Solid State Devices: semiconductors, the P-N junction, transistors, feedback, logic gates, bistable devices, binary representation of numbers, arithmetic circuits, solid-state storage and magnetic storage of data. Two lectures and one tutorial per week, and a three-hour laboratory every second week. Exclusion: PHYS141, PHYS142; PHYS110, 138, 150. Corequisites: OAC Calculus and one of OAC Algebra & Geometry or OAC Finite Session: Winter Day

PHYS215 Electricity and Magnetism
Telephone ID #: 24822155
A study of: Coulomb's law, electric fields, Gauss' law, electric potential, capacitance, dielectrics, magnetic forces and fields, induction, magnetization, Faraday's law, displacement currents, Maxwell's equations. Exclusion: PHYS201. Prerequisite: PHYS141 or PHYS115, MAT2A4 Session: Winter Day

PHYS225 Electronics
Telephone ID #: 24822233
A study of non-linear elements including diodes and transistors, rectifiers, simple filters, amplifiers, pulse circuits, operational amplifiers, logic gates, Boolean algebra, digital electronics. Includes a three-hour laboratory every second week. Exclusion: PHYS141. Prerequisite: PHYS140 or PHYS115, MAT2A6 Session: Winter Day

PHYS230 Physics Laboratory
Telephone ID #: 24822343
Experiments in circuit theory, basic electricity and magnetism, wave physics and atomic and nuclear physics. A six-hour laboratory once every two weeks. Exclusion: PHYS120, PHYS125 Corequisite: PHYS21 Session: Winter Day

PHYS212 Classical and Quantum Waves
Telephone ID #: 24832133
A study of: harmonic motion, damping, driven and coupled oscillators; standing and running waves; interference and diffraction; normal modes; wave functions in quantum theory; wave-particle duality; de Broglie matter waves; wave mechanics of 1-dimensional systems. Prerequisite: PHYS121; MAT2A4 This is a computer-based course. Lectures and assignments use MAPLE, the symbolic programming language. Session: Winter Day

PHYS225 Structure of Matter
Telephone ID #: 24832255
Introduction to the quantum description of electronic properties of atoms, molecules and solids (including semiconductors and superconductors); ab initio physics of elementary particles and structure of nuclei; nuclear power. Course includes discussion of Fermi and Bose statistical distributions. Prerequisite: PHYS21 Session: Winter Day

Political Science
(B.A.)

Discipline Representative: R. Massar (247-7307)
Contemporary states and societies are beset by political crisis and change. International relations have become unstable and unpredictable at 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 divide many countries, and even in historically stable liberal democracies political mobilization by race, ethnicity, language, and gender challenges 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 secure human survival. Dealing with these problems is a fundamental necessity for citizens and their government 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. In the area of Canadian government political studies focus on the institutions and processes of politics and public decision-making in Canada, including constitutional development, intergovernmental relations, public administration, and public policy. Course in comparative politics deal with the problems of political change and development in areas such as Asia, Europe, Latin America, and the Middle East, and study the political institutions and practices of a variety of countries in order to provide a comparative perspective for analyzing and judging the primary issues of politics. 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 expressions of politics from ancient Greek philosophers to post-modern social theorists.

Specialist Programme in Political Science
Supervisor: D. Welch (247-7308)
Note: Registration in this Programme is limited.
Applications for admission to the Specialist Programme are accepted after students have completed at least four full-course equivalents (that is, generally completing the first year of the degree programme). Applicants must have completed POLA10Y. Students will be selected to enter the second year of the programme on the basis of their G.P.A. for those five courses taken to date (including POLA10Y) in which their grades are highest. Students wishing to register at a later date may be admitted at the discretion of the Supervisor.

Students must complete at least ten full-course equivalents in Political Science, four of which must be at the C or D level. The courses must include the following:
1. POLA30Y Introduction to Politics
2. POLB70Y Classic Texts in Political Theory
3. POLB80Y International Relations
4. POLB91Y Comparative Politics of Political Development
5. POLB92Y Comparative Politics
6. POLC74Y Modern Political Theory
7. POLC75Y Political Analysis

Students who are completing their degree programme in the Specialist Programme 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.
POLS05Y Introduction to Politics: Canada
Telephone ID #: 25215063
An introduction to political science, focusing upon Canada. Examines key terms such as systems, government, politics, power, influence, and authority, and analyzes the nature of liberal democracy. Subsequent topics include: constitutions and forms of government; federalism; cabinet-parliamentary government; political ideas and ideologies; public opinion and political culture; parties and pressure groups; elections and voting; bureaucratic and judicial politics; aboriginal self-government; the politics of ethnicity, class, and region; nationalism. Two lectures and one tutorial each week.
Exclusion: POL101, POL106, POL102, POL103
Session: Winter Day, Summer Evening
R. Blair, R. Mason

IDBS01Y Political Economy of International Development
Telephone ID #: 08120163
Introduces students to major development problems, the principal social, economic and political factors that condition these and the impact on them of various development strategies pursued in a sample of Third World countries. Exclusion: POL201, POL891
Prerequisite: ECOA02Y or ECOA03Y or permission of instructor. Session: Winter Day
S. Horton, R. Kingston

POL81F Government and Politics in Ontario
Telephone ID #: 25205133
Study of the role of government, political structures and processes in Ontario: cabinet government; the actions of cabinet, legislation, and public service; political parties and the party system; provincial-municipal relations. Class size is limited to 80 per section. Exclusion: POL901
Prerequisite: POL150 (POL150)
Session: Winter Day
R. Blair

POL40Y Canadian Public Policy and Administration
Telephone ID #: 25226063
A study of the ideologies, institutions and processes of politics, policy and administration in the governments of Canada and Ontario. Basic types of administrative organizations — ministerial departments, central agencies, regulatory tribunals, public corporations and advisory bodies. Processes of constructing public agendas, planning priorities, choosing governing instruments and implementing public policies. Patterns of public policies in selected areas of economic growth, social welfare, public opinion and human rights. Problems of democratic politics, political ideology and bureaucratic power in making public policy. Class size is limited to 80 per section. Exclusion: POL305Y (POL305Y)
Session: Winter Day
J. Bickel

POLS05Y Comparative Texts in Political Theory
Telephone ID #: 25227063
An examination of the central political texts from Plato to the early modern period. Students will be expected to read Plato's Repubhc, Aristotle's Politics, Machiavelli's The Prince, Hobbes' Leviathan (Part one and two) and Locke's Second Treatise of Government. The political writings of St. Augustine and St. Thomas Aquinas will also be studied. Class size is limited to 80 per section. Exclusion: POL101
Session: Winter Day
E. Andrew

POLS05Y International Relations
Telephone ID #: 25228063
A study of the nature of the international system, the factors that motivate foreign policies, and the institutions for the conduct of international relations. Class size is limited to 80 per section. Exclusion: POL208
Prerequisite: Not to first year students without permission of instructor. Session: Winter Day, Summer Evening
D. Welch/IRA

POL85Y Russian Government and Politics
Telephone ID #: 25228603
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. Class size is limited to 80 per section. Exclusion: POL204
Prerequisite: None in 1995-96; starting in 1995-96 POL80YZ (Comparative Politics of Democratic Governments) or HIS807
Session: Winter Day
S. Solomon
POLS57Y Political Analysis
Telephone ID: 25237563
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 values 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 problems of reasoning and the "science of politics".
Class size is limited to 60 per section.
Exclusion: POL538
Prerequisite: POL530 or POL531
Session: Winter Day
G. Skogstad

POLS64Y Intergovernmental Relations in Canada
Telephone ID: 25237463
An examination of some of the problems of intergovernmental relations which arise in a federal state and of the governmental machinery which has been developed to deal with these issues. Emphasis on provincial politics.
Class size is limited to 60 per section.
Exclusion: POL536
Prerequisite: POL530
Session: Winter Day
G. Skogstad

POLS70Y Modern Political Theory
Telephone ID: 25237463
A study of the major political philosophers of the eighteenth and nineteenth centuries. Particular emphasis will be placed on Rousseau's Discourse on Inequality and Social Contract, Burke's Reflections on the Revolution in France, Tocqueville's Democracy in America, and selected writings of J. S. Mill and Marx.
Class size is limited to 60 per section.
Exclusion: POL530
Prerequisite: POL530
Session: Winter Day
D. Cook
POL699 Supervised Research
A research project under the supervision of a member of faculty that will result in the completion of a substantial report or paper acceptable as an undergraduate senior thesis. Students wishing to undertake a supervised research project in the Spring term must register in POL699S in the Fall term. It is the student's responsibility to find a faculty member who is willing to supervise the project, and the student must obtain consent from the supervising instructor before registering for the course. During the Fall term the student must prepare a short research proposal, and both the supervising faculty member and the Supervisor of Studies must approve the research proposal prior to the first day of classes for the Spring term. Prerequisite: Permission of Instructor. Session: Winter Day, Winter Evening Staff.

POL699 Supervised Reading
Advanced reading programme in special topics. This course is meant only for those students who, having completed the available basic courses in a particular field of Political Science, wish to pursue further intensive study on a relevant topic of special interest. Students are advised that they must obtain consent from the supervising instructor before registering for this course. Exclusion: POL495. Prerequisite: One B-level course in Political Science; Permission of Instructor. Session: Summer Evening, Winter Day, Winter Evening Staff.

POL699 Supervised Reading
Advanced reading programme in special topics. This course is meant only for those students who, having completed the available basic courses in a particular field of Political Science, wish to pursue further intensive study on a relevant topic of special interest. Students are advised that they must obtain consent from the supervising instructor before registering for this course. Exclusion: POL495. Prerequisite: One B-level course in Political Science; Permission of Instructor. Session: Summer Evening, Winter Day, Winter Evening Staff.

POL555 Supervised Research
A research project under the supervision of a member of faculty that will result in the completion of a substantial report or paper acceptable as an undergraduate senior thesis. Students wishing to undertake a supervised research project in the Spring term must register in POL555S in the Fall term. It is the student's responsibility to find a faculty member who is willing to supervise the project, and the student must obtain consent from the supervising instructor before registering for this course. During the Fall term the student must prepare a short research proposal, and both the supervising faculty member and the Supervisor of Studies must approve the research proposal prior to the first day of classes for the Spring term. Prerequisite: Permission of Instructor. Session: Winter Day, Winter Evening Staff.

POL555 Supervised Reading
Advanced reading programme in special topics. This course is meant only for those students who, having completed the available basic courses in a particular field of Political Science, wish to pursue further intensive study on a relevant topic of special interest. Students are advised that they must obtain consent from the supervising instructor before registering for this course. Exclusion: POL495. Prerequisite: One B-level course in Political Science; Permission of Instructor. Session: Summer Evening, Winter Day, Winter Evening Staff.

Psychology (B.Sc.)
Associate Chair: A. Kahn. Psychology is that branch of science which seeks to understand behaviour and mind. How people work, and what they do, is one of the most compelling and longstanding questions in the history of human thought. Philosophers, artists, novelists, theologians and others have sought the answer through reason and intuition. Psychology uses the methods of scientific enquiry to address the questions.

The areas of interest encompassed by the discipline of psychology include: how organisms perceive their environments; how they learn, adapt, and remember; how they change over their lifetimes; how they choose among 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 behaviour relates to their physiological functions; and how individuals and species differ from one another. Our course offerings in Psychology include all of these topics, covering how psychologists go about answering the important questions in each, and what we have learned about each.

The Specialist Programme in Psychology includes courses from each of the main sub-areas within the discipline. This Programme is intended both for students with a strong interest in the field and for those who wish to pursue graduate work in psychology after the first degree. Students considering graduate study should plan to include the honours course (PSY100Y) in their undergraduate programme.

The Major Programme in Psychology is designed to introduce students to the main areas within the discipline. The Major Programme is designed for students who are interested in a less intensive exposure to the field. Often, students desire to concentrate their studies in two areas, in which case a double Major Programme combining psychology with another discipline is ideal.

Students particularly interested in the relation of brain to behaviour should consider the Specialist or Major Programme in Neuroscience described earlier in this Calendar. Those particularly interested in the study of knowledge—language, communication and thought—may wish to consider the Major and Specialist Programmes in Cognitive Science described earlier.

Planning your Programme in Psychology
Students should be aware that the A, B, C, D course structure in Psychology dictates the sequence in which courses should be taken, but not the year of study in which a given course must be taken. Thus is, A, B, C, and D do not correspond to first, second, third and fourth year. As two examples, it is recommended that PSY100Y and PSYC685S be taken consecutively in the two terms of second year and that the same be done with PSY160Y and PSYC685S. Students should be aware that with the exception of PSY100Y and 200Y, all other courses in the Faculty of Arts and Science are considered D-level. Students are encouraged to plan carefully so that they will meet their educational objectives over the years of their degree. Discussions with the Supervisor of Studies can be very valuable in this regard.

Specialist Programme in Psychology Supervisor: J. Bantelli (office SS500)
The programme requires completion of 12.5 full-course equivalents, and fulfills the Programme requirements for the 4-year B.Sc. degree in Psychology.

A. (9) full-course equivalents in Psychology, as follows:

1. PSY100Y Introduction to Psychology (1 full-course equivalent)

2. Statistical Methods (1 full-course equivalent)
   (a) PSY100Y/6 Data Analysis in Psychology (1 full-course equivalent)
   (b) PSYC685S Experimental Design in Psychology (1 full-course equivalent)

3. Laboratory Methods (1 full-course equivalent)
   (a) PSY100Y/6 Psychological Research Laboratory (1 full-course equivalent)

   (b) Half-course (1 full-course equivalent) from among the following:
       - PSY100Y/6 Social Psychology Laboratory
       - PSY200Y/6 Developmental Psychology Laboratory
       - PSY300Y/6 Methods Laboratory
       - PSY400Y/6 Learning Laboratory
       - PSYC685S Experimental Psychology Microcomputer Laboratory
       - PSY605Y/6 Psychological Laboratory
4 Courses at the B-level and/or C-level (1.5 full-course equivalents)
   Students are required to select one half-
   course (0.5 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);
   (b) Learning and Physiology courses
   (listed in the 40- or 60-series);
   (c) Perception, Language, and
   Cognition courses (listed in the
   50-series).
5 Courses at the D-level (1.5 full-course equivalent)
   Students must choose one half-course
   (0.5 full-course equivalent) from the D-
   level offerings in Psychology.
6 Additional courses in Psychology (2
   full-course equivalents)
   Students must choose 2 further full-
   course equivalents from any of the
   remaining courses in Psychology. At
   least one full-course equivalent from
   these must be at the C- or D-level.

Minor Programme in Psychology
Supervisor: J. Bassili (office 5500)

PSTG95Y Introduction to Psychology (1 full-course equivalent)
PSTB9155 Psychological Research Laboratory (1.5 full-course equivalent)
PSTB9775 Data Analysis in
   Psychology (1.5 full-course equivalent)

More Courses at the B-level and/or C-level (1.5 full-course equivalents)
Students are required to select one half-
course (0.5 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);
(b) Learning and Physiology courses
   (listed in the 40- or 60-series);
(c) Perception, Language, and
   Cognition courses (listed in the
   50-series).

Minor Programme in Psychology
Supervisor: J. Bassili (office 5500)

PSTG95Y Introduction to Psychology (1 full-course equivalent)
PSTB9155 Psychological Research Laboratory (1.5 full-course equivalent)
PSTB9775 Data Analysis in
   Psychology (1.5 full-course equivalent)

PSTB910Y Introduction to Psychology
Telephone ID #: 257-0163
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
invertebrate, perceive their environments,
how their behavior is modified by
experiences, and how their activities are
initiated, sustained, and directed.

The physiological basis of behavior,
particularly the functioning of the nervous
system; learning and the importance of past
experience in behavior; perception,
thinking, and reasoning; intelligence;
language; motivation and emotion; social
behavior; personality, and abnormalities
of behavior and experience.
Exclusion: PSTY100, PSTY200
Session: Summer Evening, Winter Day,
Winter Evening
The Faculty

PSTB910F Psychological Research
Laboratory
Telephone ID #: 25720133
The intent is to present the principles of the
scientific method as they apply to
experimental psychology. Using examples
from a variety of research areas in
Psychology, the development of research
projects in psychology will be described.
The nature of hypothesis testing through the
design of experiments provides the
nucleus of the course. Out of this grows
discussion of issues important in planning
and conducting research: generating
research problems, experimental design,
sampling of subjects, scaling and
measurement, interpretation and evaluation of
results, theory construction, and
preparation of the research report. The
social psychology of the experiment and
ethical issues in research will also be
considered.

Topics will survey the entire range of
effective research methods will be
introduced in lectures and illustrated
in laboratory exercises. This course is
required for both the Major and the
Specialist Programmes, and provides the
basic skills necessary to take the other
laboratory courses in psychology.
Prerequisite: PSTY010
Session: Winter Evening
G. Bodenman

PSTB9075 Data Analysis in Psychology
Telephone ID #: 25720753
An introduction of the role of statistical
decision-making procedures in drawing
reasonable inferences from research
findings.
This course details the mechanics of a
variety of commonly used data analysis
procedures and explores their underlying
logic. Data reduction techniques include:
frequency distributions, measures of central
tendency and variability, linear
transformations, correlation and
regression; and hypothesis testing
procedures based on the binomial,
chi-square, normal, and t distributions.
A working knowledge of elementary algebra
(is the solution of simple linear equations
in one unknown) is assumed. Four hours of
lecture and one hour of tutorial per week.
Exclusion: ANT335, BIO250R, ECO311,
ECO409, MTH100, ORD300, STA102,
STA187, SOC300, PSTY201
Session (S): Summer Evening, Winter Day,
T.B.A.

PSTB10F Introduction to Social Psychology
Telephone ID #: 25721033
Surveys social influence (conformity and
obedience), prejudice, sexism, attitude
change, group behavior (crowding, crowd
behavior, campus), aggression, cooperation
and competition, nonverbal communication,
person perception, attraction and
emotions.
Social Psychology focuses on the personal
problems, emotional, cognitive, thought,
and behavior are influenced by the
interaction of others. This course is
designed to demonstrate phenomena of
social behavior and to present theories and
research evidence relating to these
phenomena.
Exclusion: PSTY220
Prerequisite: PSTY010
Session: Winter Day
J. Bassili

PSTB20F Introduction to Developmental
Psychology
Telephone ID #: 25722033
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 related issues in adolescence and life-span development.

Three lecture hours per week.
Exclusion: PSY210
Prerequisite: PSY400
Session: Summer Evening, Winter Day
T.R.A.

PSY5800 Personality
Telephone ID: 2572053
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 behaviors psychology, cognitive psychology, and artificial intelligence, and psychodynamic.
The aim 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.
Exclusion: PSY230
Prerequisite: PSY400
Session: Winter Day
A. Kizil

PSY5802 Abnormal Psychology
Telephone ID: 2572523
Definition and identification of abnormality; historical-cultural influences on attitudes, practices, theories, and research; a variety of past and current viewpoints in the development of abnormal, model and theory, including sociological, psychological, biophysical, psychosomatic, psychosocial, and sociological; classification systems, including problems in their reliability and validity, description of a variety of neuroses, psychoses, and other behavioral disorders of adults and children, including cognitive, emotional, sensory-perceptual, somatoform, and motor speech; approaches, methods of investigation, and findings in psychological, pharmacological, genetic, and epidemiological research; management, control, and modification of abnormal behavior within and outside institutions, including pharmacological, psychotherapeutic, learning-based, and social engineering approaches.
The conceptual problem of defining abnormality and categorizing its varieties will be emphasized.
Exclusion: PSY420
Prerequisite: PSY400
Session: Winter Day
J. Zullin

PSY5845 Behavior Modification: Origins and Applications
Telephone ID: 2572453
A survey of attempts to understand and regulate behavioral tendencies in non-laboratory settings based on principles derived from diverse areas of experimental psychology. A critical analysis of current applications and systems of behavioral modification and control will also be included.
Philosophical underpinnings; basic concepts and models of behavioral change; research strategies; operant procedures; reinforcement schedules; extinction; shaping, self-reinforcement, fading, chaining, discrimination, the token economy, behavioral contracting, biofeedback, punishment and its side effects; cognition and behavior therapy, attribution, placebo effects, cognitive therapy, rational-emotive therapy, thought stopping, problem solving, modeling; establishment of new behaviors, fear extinction, assertive training; treatment of depression and schizophrenia; systematic desensitization; treatment of anxiety; aversive counterconditioning; treatment of alcohol and drug abuse.
Exclusion: PSY461
Prerequisite: PSY400
Session: Winter Evening
F. Schaper

PSY5850 Sensation and Perception
Telephone ID: 2572033
The physics, mathematics and physiology of processes underlying perception, especially light and sound; receptors and sensory pathways with emphasis on vision; touch and audition; sensitivity; colour, spatial and temporal resolution; contrast; and the information resulting from sensory events and activity by the perceiver. The teaching methods will include both lecture and laboratory, and reading assignments will be made to many phenomena under discussion.
Exclusion: PSY400
Prerequisite: PSY400
Session: Winter Day
J. Foley

PSY5855 Perception and Cognition
Telephone ID: 2572515
Theory and empirical research on perception and cognition, including problems of central mechanisms, sensory systems and visual and tactile perception, representation, and communication.
Topics include the connectionist and ecological approaches to cognition and perception in the handicapped and normal perceiver; perceptual information and projections, illusory, perspective, shadow patterns and flow fields during motion, possible and impossible scenes, human and computer scene-analysis, ambiguity in perception, perception of objects and images, outline representation. The empirical research is on adults and children and different species. Demonstrations and exercises form part of the course work.
Prerequisite: PSY400
Session: Winter Day
J. Kennedy

PSY5875 Memory and Cognition
Telephone ID: 2572525
Discussion of experiments and theories in human memory and cognition. This course provides an analysis of the research on encoding, storage and retrieval of information in human memory. Also surveyed are the related topics of attention, thinking, and problem solving, and their role in a general model of information processing.
Three lecture hours per week.
Exclusion: PSY270, PSY271
Prerequisite: PSY400
Companion: PSY400
Session: Winter Day
T.R.A.

PSY5890 Brain Mechanisms and Behavior I
Telephone ID: 2572503
The relation between behavior and the structure and function of the nervous system. Topics covered include: neuroanatomy, structure and function of neurons, neurotransmission and neural mechanisms and movement.
The objective is to give the student a firm grasp of the organization of the nervous system and its role in the behavior of an organism. Neuroanatomy, structure and function of neurons, neurotransmission, and neural mechanisms of sensation and movement.
Three hours of lecture and two hours of lab per week.
Exclusion: PSY500
Prerequisite: PSY400; PSY465 is recommended for students with no Biology background.
Session: Winter Day
G. Fry

PSY5895 Human Brain and Behavior
Telephone ID: 2572555
An examination of the neurological basis of human behavior: an introduction to human neurophysiology.
The course focuses on the following: brain function in health; hemispheric specialization; neurourology of speech, disorders of the central nervous system (multiple sclerosis, epilepsy, organic brain damage, stroke, Alzheimer's disease, frontal lobe syndrome, neglect, and speech disorders); psychopharmacology and the biological basis of psychiatric disorders.
Three hours of lecture per week.
Prerequisite: PSY400
Session: Winter Evening
T. Field

PSY5899 Scientific Communication in Psychology
Telephone ID: 2572053
The model of this course is the development and enhancement of practical and professional skills based on current standard discourse in the field of psychology. The primary focus is on improving the student's ability to think, organize information and communicate clearly, critically and effectively within the discipline. Activities will be organized around the discussions and construction of empirical studies, literature reviews and theoretical articles. Related skills often helpful for the production of sound arguments and communication, such as aspects of computer literacy and strategies for creating information technology, will be incorporated into the course.
This course is limited to students enrolled in the Psychology Specialist Program, and is recommended to take in the student's third year.
Prerequisite: PSY301, PSY307, PSY308
Session: Winter Day
D. Berr

PSY58988 Experimental Design in Psychology
Telephone ID: 2573038
The aims of this course as a research tool and its rationale and mechanics of its application to a variety of experimental designs: simple randomized, repeated measures, factorial. Additional topics discussed include: convenience of variance, multiple comparison, trend analysis. The course includes the range of experimental designs examined in PSY400. Procedures are investigated which permit the analysis and interpretation of data from complex
experiments involving the simultaneous manipulation of several independent variables. The course is highly recommended for all students contemplating supervised individual research in Psychology.

Three hours of lecture and one hour of tutorial per week.

Exclusion: STAC32, PSY202
Prerequisites: One of PSY107, PSY142B, STA2122 or STA2447 and one additional B-level half-course in PSY.
Session: Winter Day
T. B. A.

PSYC11 Social Psychology Laboratory
Telephone ID #: 25711133
Introduction to 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 students planning to carry out research on daily social interaction.

Discipline and laboratory work. Limited enrolment: 25
Exclusion: PSY206
Prerequisite: PSY101, PSY107, PSY110
Session: Winter Day
J. Basili

PSYC125 Advanced Social Psychology
Telephone ID #: 25731233
A detailed examination of selected social psychological topics introduced in PSY110.

This course examines the nature of attitudes, their development, organization and change. Practical issues such as the measurement of attitudes and the relation between attitudes and behaviour will be covered.

Teaching method: Lectures.
Exclusion: PSY206
Prerequisite: PSY101, PSY107, PSY110 plus one additional B-level half-course in PSY
Session: Winter Evening
J. Basili

PSYC127 Advanced Developmental Psychology
Telephone ID #: 25723213
An examination of selected issues pertinent to adult development, particularly during early and middle adulthood.

Examples of topics which may be covered include: adaptation to parenthood, work-related functioning, continuity versus change in adulthood. Teaching method: lectures, discussion.
Exclusion: PSY263
Prerequisite: PSY107, PSY120 plus one additional B-level half-course in PSY
Session: Winter Day
K. K. Dies

PSYC245 Developmental Psychobiology
Telephone ID #: 25382453
Descriptive and empirical approaches to the study of the acquisition of new behaviour. Topics include: reinforcement, motivation, classical and instrumental conditioning principles, theory of operant conditioning.

The course provides theoretical and empirical experience relevant to basic concepts and current research in learning and motivation.
Exclusion: PSY206, PSY339, PSY369
Prerequisite: PSY107, PSY108 or equivalent
Session: Winter Day
G. Biederman

PSYC240 Applied Psychology of Learning
Telephone ID #: 25734533
The purpose of this course is to present principles of scientific psychology in relation to selected areas in applied psychology literature and to review the topic and validity of modern applied learning techniques and measurement.

Strategies in these areas: e.g. remediation strategies in atypical populations, observational learning strategies in various populations (e.g. autistic, MR, learning disabled).

Competitive, profit, and operation approaches will be considered with the emphasis on the experimental literature related to these areas.

This course emphasizes critical evaluation of the literature and will have essay examinations and one major paper as a course requirement.
Exclusion: PSY107, PSY145, PSY264 and PSY252 also recommended.
Session: Winter Day
M. van der Voort

PSYC205 Cognitive and Representation Systems
Telephone ID #: 25734533
Study of recent theories of perception and memory, focusing on the most important subjects and specific areas.

Topics may include: perception, memory encoding, the relationship of vision and memory, and the use of patterns normally found in the real world. The emphasis is on both the theory and the functional aspects of the material.
Exclusion: PSY130
Prerequisite: PSY107, PSY108, PSY120
Session: Winter Day
K. K. Dies

PSYC225 Learning Laboratory
Telephone ID #: 25734533
Critical review of basic theories and issues in the psychology of learning, with selected laboratory exercises in animal learning. An introduction to the techniques and principles in the study of the acquisition of behaviour. Topics include: reinforcement, motivation, classical and instrumental conditioning principles, theory of operant conditioning.

The course provides theoretical and empirical experience relevant to basic concepts and current research in learning and motivation.
Exclusion: PSY206, PSY339, PSY369
Prerequisite: PSY107, PSY108 or equivalent
Session: Winter Day
G. Biederman

PSYC250 Experimental Psychology
Telephone ID #: 25734533
This laboratory course emphasizes the use of microcomputers in preparing, controlling, and analyzing experiments. Students will learn a simple programming language, and will have considerable "hands-on" experience with laboratory microcomputers. The aim is to develop the skills necessary to program experiments in psychology, with particular emphasis on research in cognition.

The teaching method will consist of lectures on using the computer as a tool for psychological research, and lectures on the programming language. No previous computer experience is expected or required.
Limited enrolment: 20
Exclusion: PSY106, and any course in Computer Science with the exception of CSCI202.
Prerequisite: PSY107, PSY108 or equivalent
Session: Winter Day
M. van der Voort

PSYC210 Brain Mechanisms and Behaviour
Telephone ID #: 25734533
A continuation of PSY105, emphasizing motivation and learning. Topics covered include: psychological basis of eating, drinking and sexual behaviour, sleep, and the neural correlates of reward. Topics covered include: psychological processes and memory, structural basis of learning and memory.

Three hours of lecture per week.
Exclusion: PSY290
Prerequisite: PSY106, plus one other B-level half- course in PSY; PSY107 and PSY120 are recommended.
Session: Winter Day
M. Mitram
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.

Exclusion: PSY901
Prerequisite: PSY901 or permission of instructor.

Session: Winter Day
A. Keefe

PSYC865 History of Psychology
Telephone ID: 25734531
A survey of developments in Western philosophy and science which influenced the emergence of modern psychology in the second half of the Nineteenth Century. Twenty-first century schools of psychology are discussed, including functionalism, structuralism, Gestaltism, and behaviorism. The course is designed for students who want to integrate their knowledge of the different areas of psychology and offer good preparation for graduate school.

This course examines changes in the treatment of three basic problems: mind-body, epistemology (the science of knowledge) and behavioral ethics. We begin with the ancient Greek philosophers who established the foundations of Western thought and science. The contributions of European philosophers and scientists (both physical and natural) from the Feudal period to the Renaissance are then discussed. Topics also considered include: the development of paradigm or theory change in the sciences and the scientific revolution of individual genetics and biological evolution to scientific developments. Limited enrolment: 25.

Prerequisite: Two B-level half-courses in Psychology or permission of instructor.
Session: Winter Day
G. Capchuk

PSYCOM150H1 Supervised Study in Psychology
A reading or research project. The courses provide an opportunity to investigate an area in depth after completing the regular, 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 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 dissertation.

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

Prerequisite: PSY901 or PSY912 or PSY920 plus one C-level half-course in PSY
Session: Winter Day
G. Capchuk

PSYC865 Current Topics in Social Psychology
Telephone ID: 25741533
An intensive examination of selected issues in research problems in social psychology. Limited enrolment: 20.

Exclusion: PSY920
Prerequisite: PSY911, PSY912 or PSY920 plus one C-level half-course in PSY
Session: Summer Evening
C. Washington

PSYC865 Critical Analysis in Social Psychology
Telephone ID: 25741633
An intensive analysis of theory and methodology in Social Psychology. Critical analysis of research problems in Social Psychology is predicated upon developments in both theory and methodology. The primary goal of the course is to enhance skills for critically analyzing both domains in Social Psychology. European and American theories will be critiqued. Speculative and revolutionary models of social psychology are contrasted. Disciplinary and professional aspects of social psychology are discussed in relation to social progress. Special emphasis is placed on social and personality factors with shape theory construction and evaluation. Examples are drawn from both active and motivational approaches to social phenomena. Finally, the analogy between Page's account of intellectual development in the child and developments in social psychology is considered. Limited enrolment: 20.

Exclusion: PSY4201
Prerequisite: PSY911 or PSY912 or PSY920 plus one C-level half-course in PSY
Session: Winter Day
G. Capchuk

PSYC865 Socialization Processes
Telephone ID: 25742255
The processes by which an individual becomes a member of a particular social system (or systems). The course examines both the content of socialization (e.g., development of specific social behaviours) and the context in which it occurs (e.g., family, peer group, etc.). Material will be drawn from both social and developmental psychology. Limited enrolment: 20.

Exclusion: PSY911, PSY912
Prerequisite: PSY910 and PSY920 plus one C-level half-course in PSY
Session: Winter Evening
E. Dion

PSYC865 Current Topics in Abnormal Psychology
Telephone ID: 25743333
An intensive examination of selected issues and research problems in abnormal psychology. The specific content will vary from year to year. Limited enrolment: 20.

Exclusion: PSY4401
Prerequisite: PSY910 plus one C-level half course in PSY
Session: Summer Evening
Session (5): Winter Evening
S. Zeilke
PSYD405 Current Topics in Memory and Cognition
Phone ID: 25748553
An intensive examination of selected topics. The specific content will vary from year to year. Limited enrollment: 20
Exclusions: PSY470, PSY471
Prerequisites: PSY205 plus one C-Level half-course in PSY
Session: Winter Day
M. Smith
PSYD505 Psychology and the Law
Phone ID: 25748533
The course will focus on the application of psychology to the law, particularly the perception and memorial processes which influence the giving of testimony. Limited enrollment: 20
Exclusions: PSY115
Prerequisite: A 150-series half-course plus one C-Level half-course in PSY
Session: Winter Day
M. Smith
PSYD605 Current Topics in Physiological Psychology
Phone ID: 25748503
An intensive examination of selected issues and research problems in comparative and physiological psychology. Limited enrollment: 20
Exclusions: PSY901
Prerequisite: PSY101
Session: Winter Day
N.W. Megram
PSYD625 Neuroplasticity: Mechanisms and Functions
Phone ID: 25746253
Neuroplasticity refers to the modification of neural tissue in response to experience which provides the foundation for learning, memory, and other complex mental processes. This course will explore the mechanisms underlying neuroplastic change and its functional significance.
There are two major goals: (1) to survey and critically discuss the most important contemporary research on neuroplastic processes; (2) to provide the necessary background so that students are capable of giving a sophisticated answer to the question of what changes occur in the nervous system during learning and memory and what mechanisms underlie these changes. Limited enrollment: 20
Prerequisites: PSY200, PSY201 Session: Winter Day T. Perri
PSYD675 Psychobiology of Aging
Phone ID: 25746575
Aging is a complex biological phenomenon which is universal and inevitable. The course will cover the various anatomical, biochemical, and physiological changes that occur in the nervous system with age and will explore the associations between these changes and cognitive deterioration. The course will examine the characteristics of several age-related disease states and evaluate the validity of current theories and experimental models of aging. Two hours of lecture per week. Limited enrollment: 20
Prerequisites: PSY100 Corequisite: PSY101 Session: Winter Day
G. Ivy
PSYD605 Current Topics in Theoretical Psychology
Phone ID: 25748405
An intensive examination of selected issues in current psychology. The specific content will vary from year to year. Limited enrollment: 20
Prerequisite: PSY102
Session: Winter Day
A. Koch
PSYD695 Thesis in Psychology
Phone ID: 25746463
This course offers the opportunity to engage in a year-long research project under the supervision of an intern member of the faculty in Psychology. The project will be written 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 discuss the proposals of others, and to discuss the results of the research. Students will meet as a group with the coordinator as well as individually with the supervisor. This course is restricted to qualified Specialists in Psychology.
Students planning to pursue graduate studies in psychology are especially encouraged to enroll in the thesis. Before enrolling students must meet with the signature of their intended advisor. Students seeking supervision contact are further advised to verify first the Supervisors of Studies that the graduate project supervisor currently has a cross-appointment at the University site. Contact: PSYD505, PSY200, PSY201, PSY202, PSY203, PSY204, PSY205, PSY206, PSY207, Psychology Specialist. Winter Day
Advisor: T. Perri

SOCIOLOGY

Sociology 189

Students may wish to take Sociology courses as 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, SOCIOLOGY 189, is intended to familiarize students with the special theories, methods and questions of sociology as a part of a liberal education. In addition, the SOCIOLOGY 189 course provides a minimum background of knowledge about sociology, and hence is a prerequisite to many of the more advanced courses.

Students who want to learn about certain areas of sociology which may be useful in later occupational situations may consult faculty advisors who are prepared to assist them in course selection and provide informal advising. There are no formal requirements for these special areas and they will not be designated on diplomas.

The faculty advisors for special areas of concentration are:

Social Work - Prof. A. Sevri
Urban Studies - Prof. J. Hansen
Education - Prof. J. A. Lee

Students are strongly advised to take required courses in the Major and Specialist Programmes as early in their careers as possible. For example, SOCIOLOGY 189 and SOCIOLOGY 289 should be taken during the second and SOCIOLOGY 289 should be taken during the third year. Failure to do so may lead to intolerable conflicts and could prolong the completion of the programme.

Specialist Programmes in Sociology

Sociology 189: J. Tanner (287-7299)
The Programme requires completion of ten full-course equivalents as described below. No more than fourteen full-course equivalents in Sociology may be included in a four-year degree.
1. SOCIO 104 Introduction to Sociology
2. SOCIO 104 Methods in Social Research
3. SOCIO 204 History of Social Thought
4. SOCIO 205 Social Statistics
5. SOCIO 206 Two full-course equivalents in D-Level in Sociology
6. SOCIO 207 Contemporary Social Theory
7. One and a half full-course equivalents at C-Level
8. One full-course equivalent at D-Level
9. One other B or C-Level full course in Sociology
SOCI 101 Introduction to Sociology

An introduction to the concepts, principles, and methods of sociology as a discipline for the study of society. Major topics studied include: the nature of social groups, social processes, culture, socialization, deviant behaviour, population, community, stratification, social institutions, and social change. Exclusion: SOC 100
Session: Winter Day, Water Evening, Summer Evenning
S. Ugar, J. Lee, M. MacKinnon

SOCI 200 Methods in Social Research

Telephone ID: 28610563
The course will be divided into three basic units. It will start with a critical overview of the logic and methods of social scientific research. Topics will include the logic of research, research design and causal analysis, and methods of data collection. Once the fundamentals have been covered, an effort will be made to teach students how to "read" and critically evaluate research reports. Several studies will be examined in detail, and then students will be given the opportunity to do their own evaluations. The final goal will be to provide some practical experience in doing research. Using data sets provided by the instructor, students will be taught how to interpret tables and to employ data to test hypotheses. Exclusion: SOC 200
Prerequisite: SOC 101
Session: Winter Day, Water Evening
A. Sayer, P-C. Hwang

SOCI 300 Structure of Interpersonal Relations

Telephone ID: 28620563
A study of the patterns of interaction and influence in interpersonal relationships. The course begins with a consideration of the problem of social order, i.e., how do we constrain individual desire and induce people to act morally. We will also examine the problem of the "absent", using Canoe's Outsider. This will be followed by an examination of impression management and exchange theories. Special attention will be given to the role of other persons in "classifying" our behaviour, with examples drawn from research on mental illness and stereotyping. Other topics include status and power relations in small groups, social influence processes, and the social psychology of class, sex and race relations. Exclusion: SOC 201
Prerequisite: SOC 101
Session: Winter Day, Water Evening
J. A. Lee

SOCI 301 History of Social Thought

Telephone ID: 2862063
This course will focus on the development of sociological theories within the general framework of the history of social thought. After a brief review of the antecedents of sociological thought in social philosophy from classical antiquity to the 18th century, the emergence of sociology is examined within the context of cultural and political change. Special consideration is given to the works of Comte, Marx, Toqueville, Durkheim, Weber, Mannheim, and others. The significance of their theories for contemporary developments in sociology is emphasized. Exclusion: SOC 201
Prerequisite: SOC 101
Session: Summer Evenning
J-L. Delamotte, A. Marotz

SOC 401 Political Sociology

Telephone ID: 28630481
An examination of power in its social context. The course will examine Liberalism and that concept of power; the rise of democracy and social movements; war and warfare; race and politics. Prerequisite: One full-course equivalent in sociology. Session: Winter Day, Water Evening
K. O'Toole

SOC 501 Social Class and Society

Telephone ID: 28631063
An analysis of the nature of stratification with emphasis on the stratification; different theoretical paradigms; stratification; the social function of stratification; social change, and associated social mobility, and class. Exclusion: SOC 301
Prerequisite: SOC 101
Session: Winter Day, Water Evening
J-A. Le
do

SOCI 601 Sociology of the Family

Telephone ID: 28632165
This course explores the family as a social institution which shapes and is shaped by society in which it exists. We will study cross-cultural and cross-generational variations in family role. We will look at the relations family organization and structural and class, gender, and ethnicity. The course covers: the socialization of structure related to the family, the family organization and development; the family as a social institution; the family, and gender, ethnicity. Prerequisite: One full-course equivalent in sociology. Exclusion: SOC 301
Prerequisite: SOC 101
Session: Winter Day, Water Evening
J-D. Delamotte

SOC 602 Sociology of Deviant Behaviour

Telephone ID: 28621863
An introductory examination of the nature of work and the worker's occupational roles and behaviour in modern industrial settings. Students will be exposed to some of the major concepts, theories and empirical

Sociology 191
research in the sociology of work and industry. Topics will include an overview of the process of capitalist industrialization, changes in the occupational structure of the labor force, orientations to work, sources of job satisfaction and dissatisfaction, women and work, and the impact of new technology, unions, employment and unemployment, professionalization. Two hours of lectures per week.
Exclusions: SOC317 and SOC313
Prerequisite: SOC301
Session: Winter Day
J. Turner
SOC302Y Contemporary Social Theory
Telephone ID: 28630363
A consideration of basic questions underlying sociological thinking as they arise in the work of contemporary theorists and theoretical schools. Students will be expected to develop an informed, critical perspective on current debates within the discipline.
Exclusions: SOC311
Prerequisite: SOC303Y and one other B-level full-course equivalent in Sociology
Session: Winter Day
M. Roome
SOC3105 Sex, Self and Society
Telephone ID: 28631053
An examination of gender as a category of analysis, research and social experience.
The single most important influence on our behavior is being male or female. Gender is built into how our institutions are put together, how we are socialized, and how opportunities and access to scarce resources are structured. This course will focus on the social construction of gender, the way ideology, the impact of gender on the individual and the social structure, the maintenance of gender inequality in the labor force, in the family, in education and in social interaction.
Exclusion: SOC308
Prerequisite: SOC301 and SOC312; or permission of instructor.
Session: Winter Day
V. Tsyoka
SOC3118 Sociology of Law and Law Enforcement
Telephone ID: 28631153
An examination of existing legal systems, the process of creation of legislation, court interpretation of law and the law enforcement institutions.
Prerequisite: SOC301, SOC318
Exclusion: SOC306
Session: Winter Day
J. Hanning
SOC319 Sociology of Social Movements
Telephone ID: 28632453
The development of an approach to social movements which includes the following: the origin of social movements, mobilization processes, the cause of the movement and its termination. The course readings will be closely related to the lectures, and a major concern will be to link the theoretical discussion with the concrete readings of movements.
Prerequisite: SOC301 and one B-level full-course equivalent in Sociology.
Session: Winter Day
J. Hanning
SOC311Y Sociology of Religion
Telephone ID: 28632165
An examination 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

In historical and contemporary

(SOC321)

the SOC301, BOS and one other B-level full-course equivalent in Sociology

Winter Day

SOC316Y Urban Sociology

Prerequisite: SOC301Y

Session: Winter Day

M. Roome

SOC318Y Social Movements

Prerequisite: SOC301, SOC305, and one other B-level full-course equivalent in Sociology

Session: Winter Day

D. Vickers

SOC320Y Supervised Independent

Research by field methods, library or archival research, revision of data collection and eliminating in a research report. It is advised that they must obtain from the supervising

before registering for this course.

1. Completion of at least fifteen.

2. Exclusions: (SOC301, SOC309, SOC319, SOC320, SOC321, and one other B-level full-course equivalent in Sociology

Winter Day

V. Tsyoka

SOC321Y Advanced Seminar in Sociological

Sociology

ID: 28644153

An introduction to contemporary social

SOC340

SOC303 and SOC305

Winter Day

Advanced Seminar in Research

SOC320Y and SOC305

Winter Day

V. Tsyoka

Session: Winter Day

J. Turner

SOC117F Social Change in the Third World

Exclusions: SOC301, SOC302 and one and one-half other B-level full-course equivalents in Sociology

Sociology of Culture

Exclusions: SOC318Y

Prerequisite: SOC301, SOC302 and one other B-level full-course equivalent in Sociology

SOC319F Social Change in the Third World

Sociology of Knowledge

Exclusions: SOC301, SOC302 and one other B-level full-course equivalent in Sociology

Sociology of Education

Exclusions: SOC301, SOC305, and one other B-level full-course equivalent in Sociology

Session: Winter Day

D. Vickers

SOC322Y Comparative Ethnic and Race Relations

Prerequisites: SOC230Y and at least one more B-level full-course equivalent in Sociology

Session: Winter Day

D. Vickers

SOC326Y Sociology of Urban Growth

Prerequisite: SOC305 and one other B-level full-course equivalent in Sociology

Session: Winter Day

D. Vickers

Courses Not Offered in 1995-96

SOC320F Sociology of Education: Primary and Secondary Levels

Exclusions: SOC324 and SOC325

Prerequisite: SOC301Y

Session: Winter Day

M. Roome

SOC321Y Urban Sociology

Sociology of Race Relations

Prerequisites: SOC301, SOC303 or SOC304, and one other B-level full-course equivalent in Sociology

Session: Winter Day

D. Vickers

SOC326Y Sociology of Urban Growth

Prerequisite: SOC305 and one other B-level full-course equivalent in Sociology

Session: Winter Day

D. Vickers

Sociology of Education

Primary and Secondary Levels

Exclusions: SOC324 and SOC325

Prerequisite: SOC301Y

Session: Winter Day

M. Roome

Sociology of Race Relations

Prerequisites: SOC301, SOC303 or SOC304, and one other B-level full-course equivalent in Sociology

Session: Winter Day

D. Vickers

Sociology of Urban Growth

Prerequisite: SOC305 and one other B-level full-course equivalent in Sociology

Session: Winter Day

D. Vickers
Discipline Representative: R. Skymo (287-7147)

Students enrolling in Spanish are offered a wide range of courses in the Spanish language.

Courses in Humanities, Linguistics, and in other languages and literatures, may prove valuable to those students as adjuncts to their plan of study or as an enrichment of their total program.

Students intending to enrol in the Joint Specialist Program in Management and Language should consult the Calendar under Management.

It is important that students enrolled in Spanish confer with the Supervisor at the earliest possible date in order to arrange a coherent and appropriately scheduled program.

Major Program in Spanish Language
Supervisor: R. Skymo (287-7147)
The Major Program in Spanish Language is being phased out. Every reasonable effort will be made to allow students registered in this program to complete it.

Minor Program in Spanish
Supervisor: R. Skymo (287-7147)
Four full-course equivalents, as follows: SPAA01Y Introductory Spanish

Intermediate Spanish Language
Course ID: 2870233
Course concentrates on an intensive study of Spanish grammatical principles and a context of written exercises, readings, and some translations. It is intended for students who have completed SPAA01 or SPAA02.

SPAA01Y Introductory Spanish
SPAA02Y Intermediate Spanish Language Practice

Business Spanish
Telephone ID: 2870353
The Spanish language in a business context. The course is designed primarily for students in the Management/Language Programme but is open to all those interested in sharpening language skills particular to a career in the commercial world. Class sessions will be practical in focus and consist of such activities as translation, correspondence, and individual and group oral presentations. The aim is to develop facility in the vocabulary and structures of this specialized use of the Spanish language.

Sociology of Aging
SPAA03Y Basics of Spanish

Sociology of Mass Media and Communications
SPAA04Y Introductory Spanish

Advanced Seminar in Issues in Contemporary Sociology
SPAA02Y Intermediate Spanish Language Practice

Spanish (B.A.)

Prerequisite: SPAA01 and one B-level full-course equivalent in Sociology

Intermediate Spanish Language
Course ID: 2870233
Course concentrates on an intensive study of Spanish grammatical principles and a context of written exercises, readings, and some translations. It is intended for students who have completed SPAA01 or SPAA02.

SPAA01Y Introductory Spanish

SPAA02Y Intermediate Spanish Language Practice

These two courses must be taken simultaneously. Students who select SPAA01Y will automatically be registered in the appropriate section of SPAA02Y.

SPAA02Y Intermediate Spanish

Sociology of Mass Media and Communications
SPAA01Y Introductory Spanish

Advanced Seminar in Issues in Contemporary Sociology
SPAA01Y Introductory Spanish

Sociology of Mass Media and Communications
SPAA02Y Intermediate Spanish Language Practice

These two courses must be taken simultaneously. Students who select SPAA01Y will automatically be registered in the appropriate section of SPAA02Y.

SPAA02Y Intermediate Spanish

Sociology of Mass Media and Communications
SPAA03Y Basics of Spanish

Business Spanish
Telephone ID: 2870353
The Spanish language in a business context. The course is designed primarily for students in the Management/Language Programme but is open to all those interested in sharpening language skills particular to a career in the commercial world. Class sessions will be practical in focus and consist of such activities as translation, correspondence, and individual and group oral presentations. The aim is to develop facility in the vocabulary and structures of this specialized use of the Spanish language.

SPAA01Y Introductory Spanish

SPAA02Y Intermediate Spanish Language Practice

These two courses must be taken simultaneously. Students who select SPAA01Y will automatically be registered in the appropriate section of SPAA02Y.

SPAA02Y Intermediate Spanish

Sociology of Mass Media and Communications
SPAA03Y Basics of Spanish

SPAA01Y Introductory Spanish

SPAA02Y Intermediate Spanish Language Practice

These two courses must be taken simultaneously. Students who select SPAA01Y will automatically be registered in the appropriate section of SPAA02Y.

SPAA02Y Intermediate Spanish

Sociology of Mass Media and Communications
SPAA03Y Basics of Spanish

SPAA01Y Introductory Spanish

SPAA02Y Intermediate Spanish Language Practice

These two courses must be taken simultaneously. Students who select SPAA01Y will automatically be registered in the appropriate section of SPAA02Y.
Statistics (B.S.c.)

Discipline Representative: S. Jain

Probability and statistics have developed over a period of several hundred years as attempts to quantify uncertainty. With its origins in modeling games of chance, probability theory has become a sophisticated mathematical discipline with applications in such fields as demography, genetics and physics.

Statistics is concerned with the proper collection and analysis of data, both to reduce uncertainty and to provide for its assessment via probability. Applications range from pre-election polling and the design and analysis of experiments to determine the relative efficacies of different vaccines.

STA222 and STA475 serve as an introduction to the discipline. The C-level course builds upon the introductory material to provide a deeper understanding of statistical methodology and its practical implementation.

Please refer to the Physical Sciences section of the Calendar for the following Programmes.

Specialist Programme in Computer Science and Statistics

Specialist (Co-operative) Programme in Computer Science and Physical Sciences

Specialist Programme in Mathematics and Statistics

Major Programme in Mathematics and Statistics

Major Programme in Automobile

Major Programme in Statistics

The Major Programme in Statistics is no longer offered. Students currently registered will be allowed to complete it.

STA202 Statistics

Telephone: #5 (S) 28022223

Telephone: #5 (S) 28022223

The line analysis, residual analysis, analysis of variance, analysis of data, models for data, and nonlinear models. In the use of SAS.

STA207

Winter Day

Women’s Studies

Discipline Representative: P. Cajotte

Women’s Studies examines women’s role, women’s work, and women’s contributions past and present to society. Because men have been the more dominant sex, 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 balance by providing a perspective on women’s activities and experiences. This examination is interdisciplinary in nature, drawing upon work in such areas as Anthropology, Literature, Fine Arts, Geography, History, Linguistics, Philosophy, Psychology and Sociology.

Women’s Studies is thus concerned with such issues as women’s work and women’s role in the family in different times and different societies; the development, transmission and perpetuation of ideas and attitudes about women; women’s contributions to culture; and the particular concerns and problems of women today. Students preparing for a career in research, teaching, administration or social work are encouraged to consider enrolling in the Major or Minor Programme in Women’s Studies; since these careers involve considerations of women and women’s issues, a background in Women’s Studies would be a definite asset.

Superior of Major and Minor: Programme: L. Curney

The Major Programme in Women’s Studies

The Major Programme is designed to assist students with their major in the field of scholarship and the critical concepts and methodologies that examine women’s issues in the major academic disciplines.

Students must select seven full-course equivalents as follows:

1. WST200Y — Introduction to Women’s Studies
supervising faculty member and a second
evaluator will be appointed.
Exclusion: (B3DO1)
Prerequisites: WSTA01Y, one of
WSTG02S, WSTG02F, or WSTG03S,
and two PCE's from the list in #3 of the
Major Programme in Women's Studies (or
permission of the instructor).
Session: Winter Day
Staff
Offered: 1996/97 and 1997/98

Courses not offered in 1995/96

WSTB02S Feminist Approaches to
Science
Prerequisites: WSTA01Y
Offered: 1996/97

WSTB13S Women and the Media
Exclusion: NEW134,1,
NEW135,1, NEW144,1,
NEW413,1, if sufficient
overlap in content is present
Prerequisites: WSTA01Y or
permission of instructor
Not offered: 1996/97

WSTD02H Women's Studies: Research
and Methods
Prerequisites: WSTA01Y,
WSTB02S and two PCE's
from the list in #3 of the
Major Programme in
Women's Studies (or
permission of the instructor).
Offered: 1996/97
Re-enrolling Scarborough College Students

Students previously registered at Scarborough College who wish to return to Scarborough College after an absence of two or more consecutive sessions must submit an application to re-enrol at the Office of the Registrar, Scarborough College, Room 0-415. Students who have a degree conferred normally continue as Special Students. Students who wish to start a second degree must apply to the Assistant Registrar Admissions. For further information on re-enrolment, telephone (416) 287-7529. See also the section on Overall Standing.

Admissions

The following is a brief description of admission policies and procedures. Full information may be obtained from:

Admissions and Awards
University of Toronto
315 Bloor Street West
Toronto, Ontario, Canada M5S 1A3

Telephone enquires:
Admissions - (416) 978-2190
Secondary School Liaison - (416) 978-2771
Scarborough Campus Secondary School Liaison/Campus Tours - (416) 287-7563

General Admission Requirements to
Scarborough College, University of Toronto
for 1986-87

Candidates Applying from Ontario Secondary Schools
- Applicants must be eligible to receive the Ontario Secondary School Diploma (OSSD).
- Applicants must present at least six (6) Ontario Academic Courses (OACs).
- One credit must be OAC English 1/2 English.
- Applicants must present credits to satisfy any prerequisites of specific courses or specific programs in which they intend to enrol.
- Applicants must satisfy English Facility Requirements (Applicants may request the English Facility Requirements brochure from Admissions and Awards. Telephone (416) 978-2190.)
1. Proof of adequate English facility is required of all applicants except for those: (i) whose first language is English; or (ii) who have studied full-time for at least four years in an English language school system located in a country where the first language is English; or (iii) whose first language is French and have studied for at least four years in the Canadian school system.
## Secondary School Prerequisites

The courses below have OAC prerequisites. Students who wish to begin the study of some languages without OAC preparation should contact the Supervisor of Studies about courses appropriate to their level of competence. Note that some programs have implicit OAC requirements. For example, several of the Specialist Programs in Management and Economics require MATA28Y, which in turn requires the OAC in mathematics listed below. See also the chart that follows on prerequisites by program.

<table>
<thead>
<tr>
<th>Second Thorough Course</th>
<th>OAC Prerequisite(s)</th>
<th>Recommended course(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry A02Y</td>
<td>Chemistry and Calculus</td>
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<tr>
<td>Computer Science A59H</td>
<td>Calculus, and one of Algebra &amp; Geometry or Finite Mathematics</td>
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<tr>
<td>Computer Science A9H</td>
<td>Algebra &amp; Geometry and Calculus</td>
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<tr>
<td>Fine Art Studies A09Y</td>
<td>Visual Art</td>
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<tr>
<td>French A10Y</td>
<td>French</td>
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<tr>
<td>Environmental Science A09F</td>
<td>Mathematics and Science courses</td>
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<tr>
<td>Mathematics A04Y</td>
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<tr>
<td>Physics A01Y</td>
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<td>Physics A10F</td>
<td>Calculus, and one of Algebra &amp; Geometry or Finite Mathematics</td>
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<tr>
<td>Physics A11S</td>
<td>Calculus, and one of Algebra &amp; Geometry or Finite Mathematics</td>
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</table>
### Awards

Unless specified, the following awards do not require an application: all Scarborough College undergraduate degree students with excellent academic standing are considered.

The official award records are on file in the Office of the Registrar (Room 5415). Scarborough students are also eligible for consideration for other general University of Toronto scholarships and bursaries in addition to the awards listed below.

Students should check the "Awards" binder in Room 5415. Inquiries (416) 287-7529.

A general condition for holding an entrance or in-course award is that the student must register at Scarborough College in the following academic year with degree status.

Students who have been awarded a scholarship which is based on enrollment in a particular programme of study must continue in that programme to receive the award. Scarborough College may not award a scholarship, if, in a particular year, the academic achievement of the candidate is not of high standard.

#### Admission awards

A substantial number of admission scholarships are awarded each year on the basis of excellent academic standing. Successful applicants will be notified at the time they receive an offer of admission to the University.

#### University of Toronto Scholarships Programme

The National Scholarship Programme recognizes the very best students from secondary schools across Canada. Each secondary school is invited to nominate its most outstanding graduating-year student to receive a National Book Award. The student is then eligible for consideration for a University of Toronto National Admission Scholarship. Five National Scholarships are awarded each year. The scholarships have a value of $5,000 per year for four years, and include free residence for the first year. Finalists in the National Scholarship competition will receive Arbor Scholarships which are similar to the National Scholarships, but with a value of $1,700 per year (94-95). Ontario secondary school students should contact their high school guidance offices for scholarship applications and information. All other students should write to University of Toronto, Admissions and Awards, 315 Shear St. W., Toronto, Ontario, MSS IA3.

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<table>
<thead>
<tr>
<th>Program</th>
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<th>National Scholarship Programme</th>
<th>Arbor Scholarships</th>
<th>Other Scholarships</th>
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<tr>
<td>Science</td>
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<td>Chemistry</td>
<td>Physics</td>
<td>Environmental Science</td>
</tr>
<tr>
<td>Arts</td>
<td>English</td>
<td>History</td>
<td>Fine Arts</td>
<td>Mathematics</td>
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<td>Psychology</td>
<td>Geography</td>
<td>Psychology</td>
<td>Economics</td>
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<td>Electrical Engineering</td>
<td>Aeronautical Engineering</td>
<td>Computer Science</td>
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<td>Dentistry</td>
<td>Pharmacy School</td>
<td>Biotechnology</td>
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<td>Pharmacy School</td>
<td>Biotechnology</td>
</tr>
</tbody>
</table>
University of Toronto Scholars Programme - Admission Scholarships

The University of Toronto will honour the most outstanding admission applicants as University of Toronto Scholars. These scholarships, which have a value of $1,700 (54-95), may be held in any programme of study at the University, and in conjunction with the faculty or college academic awards. Approximately the top 120 students entering the University may expect to be selected as University of Toronto Scholars.

Plumptre Admission Scholarship

Awarded to the student entering first year whose achievement in secondary school is considered to be the most outstanding. The scholarship is awarded in memory of Professor J.F. Wyse Plumptre, a former principal of Scarborouh College.

Frederick A. Upshurth Admission Scholarships

Eight scholarships are awarded to students entering first year on the basis of exceptional academic achievement in secondary school. The scholarships are awarded in honour of Professor E.F. Upshurth, a distinguished economist.

University of Toronto, Scarborouh College

Admission Scholarships

Approximately forty scholarships are awarded to students on the basis of excellent academic achievement.

Scarborouh College Alumni Admission Awards

Awarded to students applying directly from secondary school and held in any programme of significant contribution to community service work and who have high academic achievement. Applications will be mailed to schools in the Scarborouh area. Other applicants may request an application from the Office of the Registrar. Telephone (416) 287-7525.

John Ball Alumni Entrance Scholarship

Awarded to a student entering first year on the basis of academic excellence in the secondary school program.

Warner-Lambert Admission Scholarship

Awarded to a student entering first year on the basis of academic excellence in the secondary school program.

Ting Sum Tang Memorial Entrance Scholarship

Awarded to a student on the basis of excellent academic achievement in the secondary school program.

Donated by the Federation of Chinese Canadian Professionalists (Ontario Education Foundation).

In-course awards

University of Toronto Scholars Programme - In Course Scholarships

The University will recognize outstanding undergraduate completing 1st, 2nd or 3rd year at University of Toronto Scholars.

A.D. Allen Scholarship

Awarded to the outstanding student in each year of Scarborough College, in any field of study. The scholarships are awarded in memory of Dr. A.D. Allen, a former principal of Scarborough College.

Vincent Bleden In-course Scholarships

A total of six scholarships are awarded on the basis of exceptional academic achievement at the completion of each year of study. The scholarships are awarded in memory of Professor V. Bleden, a former member of the faculty in Economics.

Scarborouh College In-course Scholarships

Awarded to the outstanding students in each year at Scarborouh College.

Scarborouh Campus Student Council Prizes

Awarded to a student in good academic standing entering the second, third or fourth year who has made a significant contribution to the Academic, Social or Cultural life of Scarborouh College. Application required.

Joan E. Foley Award

Awarded to a student, student(s), administrative staff member(s) 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.

Stanley Kosta Todorov Scholarships

Awarded on the basis of academic excellence to one or more students registered in a 1st, 2nd, 3rd or 4th year Science or Physical Sciences program, which leads to a Bachelor of Science degree.

William M. Murray Memorial Award in History

To the student enrolled in the second year of the program in the division of student achievement.

The Bay Company Scholarship

To the student with the outstanding academic award at the end of the second year.

University of Toronto Women's Cawalora M. Rolle Cow Memorial Scholarship

To the student on the basis of academic achievement in the third year undergraduate degree.

Burlington Scholarship

To the student who demonstrates leadership in political geography of resources, studies of national Canadian studies, or related field. The award is awarded in memory of John D. R. Deynes, a former member of the faculty in Geography. Suitable to be nominated by members of the York College faculty.

Micro in Economics

From the basis of an essay submitted and specializing in Management or Finance on any subject covered by B.A. level course in Economics.

Best Prize in Anthropology

To the outstanding student entering the fourth year of the Bachelor or the Specialist Degree in Anthropology.

Best Prize in Astronomy

To the full-time student entering the fourth year of the physical sciences program in Astronomy and one B or C level course in astronomy.

Best Prize in Canadian History

To the student completing third year who, in the opinion of the members of the Honours History program at the University of Toronto, has excelled in the study of Canadian History.

Steele-Bowen Memorial Prize in History

Awarded to the student completing third year in the opinion of the members of the Honours History program at the University of Toronto, has excelled in the study of History.

The Morris Krewer 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 80 standing) and financial need. Emphasis is placed on academic performance. Applications are required.

DeSchambert Essay Prize

Awarded on the basis of an essay, 2,500 to 5,000 words in length, on a topic focusing on Canadian history. Politics, Economics or similar field of Canadian Studies. The essay should have Canada as its primary, principal or exclusive focus. Essays are normally those submitted for course work and nominated by instructors. However, students may also submit a copy of their essays to either the Chair of the Division of Humanities or the Chair of the Division of Social Sciences by April 30. Include a cover page showing full name, student number and the name of the course for which and to the whom the essay was originally submitted.

McCullough and Stewart Essay Prize in Canadian Studies

Awarded on the basis of an essay, 2,500 to 5,000 words in length, on a topic focusing on Canadian art, drama, music or literature. Essays are normally those submitted for course work and nominated by instructors. However, students may also submit a copy of their 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 to the 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 final academic year. Essays are nominated by instructors.

The Margaret H. McCoy-Johnston Scholarship

Awarded to the student enrolled in a major or specialist program(s) in a modern language(s), who, entering third or fourth year, has the highest grade point average in courses taken to satisfy the programme(s). (minimum gpa 3.2).

Peter Mosc Prizes in French

Awarded for the best undergraduate essay in French drama. Essays will be nominated by instructors.
Searborough College Prize in Biology
Awarded to a full-time student entering the fourth year of a Specialist Programme in Biological Sciences on the basis of excellent academic achievement. Emphasis will be placed on achievement in the third year of study.

Brian Denis Haddad Memorial Scholarship in Management
Awarded to one or more students entering the third or fourth year of a Management Programme whose academic and athletic achievement, combined, best exhibit dedication to excellence. (Minimum grade point average of 3.5/4.0). Application required.

Management Accounting Student of Merit Scholarship
Awarded to the student who has completed the third year of study in the Specialist Programme in Management and Economics, and who has completed the following courses with the highest average grade: MGTO3H, MGTCO6H, MGTCO0H, MGTCO9H, MGTO6H, MGTC03H.

Donated by The Society of Management Accountants of Ontario
(This award is currently under review.)

North Searborough Rotary Club Scholarships
One scholarship is awarded to a student in a Management Programme and one is awarded to a student in a Political Science Programme. Candidates must be Canadian citizens or Permanent Residents, graduates of a City of Searborough secondary school and have achieved a cumulative grade point average of at least 3.3 (B+). Application required.

Ernst & Young of Searborough Award in Management
Awarded to an outstanding student entering third or fourth year in a Management Programme, who has achieved a cumulative grade point average of at least 3.3 (B+). (This award is currently under review.)

The Harvey Stachel Award in Financial Accounting
Awarded to a student completing the third year of the Specialist Programme in Management and Economics with the highest grade (at least A minus) in MGTO5H.

Donated by Paul Marshall Thorne.

Sears Research Scholarship
Awarded to a student enrolled in a programme on the basis of academic achievement. Preference will be given to a student entering fourth year who has completed the Finance 2F07 and MGTCO6H, with the Canadian Union of Public Employees.

Humanities Arts Administration
A scholarship will be awarded to a student in the Co-operative Programme in Administration who has demonstrated academic achievement. One will be awarded to a student in the Co-operative Programme in Administration who has demonstrated academic achievement on the work experience component.

The International Development Fund Scholarship
Awarded to the student enrolled in the International Development Fund Studies who has demonstrated outstanding academic achievement.

Society for Chemistry Silver Medal
Awarded to a student entering the fourth year of a Specialist Programme in Chemistry who has demonstrated outstanding academic achievement in the third year.

Society for Chemistry, Toronto Book Prize
Awarded to the most improved student in the fourth year of a Specialist Programme in Chemistry.

The Physical Sciences Book Award in Chemistry
Awarded to a student entering the third year of a Programme in Chemistry who has achieved a cumulative grade point average of at least 3.3 (B+). (This award is currently under review.)

A Hame Canada Scholarship in Chemistry
Awarded to an outstanding student entering (i) the third year of a major programme in chemistry or (ii) the third or fourth year of a Specialist Programme in Chemistry.

Andrew Teung Memorial Scholarship in Sino-Canadian Studies
Awarded to a graduate student, whose academic performance and extracurricular 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 Programme offered by the departments of Mathematics, Physics or Computer Science (Faculty of Arts and Sciences, Searborough College) on the basis of academic performance and financial need.

Application required.

APUS Scholarships
Part-time undergraduate students who (a) have completed at least ten full courses, of which four are in an area of specialization, and (b) have obtained a B average (G.P.A. of 3.0) in the most recent five full courses, may be considered. Application required.

APUS Award for the University of Toronto's Student Congress
Part-time undergraduate students who (a) have completed at least five full courses, and (b) have obtained a B average (G.P.A. of 3.0) in the last five full courses, and (c) have demonstrated outstanding achievement or commitment to activities distinct from their University studies or have overcome adverse circumstances in order to attend University, may be considered. Application required.

Jovita Nagy Scholarships
Part-time students who have a G.P.A. of at least 3.5 in the most recent five courses who have completed the majority of their courses on part-time basis may be considered. Sponsored by APUS. Application required.

Graduation Prizes
Graduation Prizes in Humanities, Life Sciences, Management & Economics, Physical Sciences and Social Sciences Awarded to the outstanding member of each class in each of these areas of specialization.

All Teyob Prize
Awarded to the outstanding member of the graduating class in Geography.
The Irving Publishing Prize in Classical Studies
Awarded to the outstanding member of the graduating class who has completed the Major Programme in Classical Studies.

Ford Prize in Psychology
Awarded to the outstanding member of the graduating class who has completed the Specialised Programme in Psychology.

CGA Ontario Award for Excellence
Awarded to an outstanding graduating student completing a Management programme who has displayed excellent achievement in accounting, with grades not less than A minus in each of MGMT259, MGMT489, and MGMC101.

The Graduation Prize in Sociology
Awarded to the student who has achieved the highest scholastic average (grade point average) in either the Sociology Specialist or Major Programme. The grade point average is based on all sociology courses attempted.

CBA-GEGY Award in Neuroscience
Awarded to a student graduating with a four-year degree who has completed either the Neuroscience Specialist or Major Programme, who in the judgement of the Faculty, has demonstrated the most outstanding academic and laboratory performance.

The Society of Chemical Industry Student of Merit Award
Awarded to a member of the graduating class who has completed a Specialist programme in chemistry and achieved the highest standing in the final year. (Minimum GPA of 3.5799; has completed the degree within the normal number of years.)

Ophra Prize in Humanities
Awarded to an outstanding member of the graduating class who has completed either the College Programme in the Humanities, the Major Programme in Music History and Literature, or the Specialist Programme in the Arts.

Graduation Prize in Political Science
Awarded to an outstanding member of the graduating class who has completed a programme in political science. (This award is under review.)

Digital Equipment of Canada Limited Award of Merit
Awarded to the most outstanding student graduating in Computer Science in the University.

John H. Moss Scholarship
Exceptional all-round students graduating in the spring who intend to enter a graduate or second undergraduate degree programme should request an application for this prestigious scholarship from the University of Toronto Alumni Association in the fall. The deadline is normally in January.

Gordon Creasy Award/University of Toronto 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 The University of Toronto Alumni Association, requires a nomination by the college.

Scarbrough College Honours List
Scarbrough College publishes annually an honours list, including the names of all degree students who have achieved a grade point average of 3.70 or better in their most recent year of full-time study or equivalent amount of part-time study. Students are considered for the honours list at the end of the session in which they complete their 5th, 10th, 15th and 20th credits. Other students may be nominated by the academic Divisions of the College.

Graduation With High Distinction and With Distinction
Scarbrough College students who have completed at least ten full courses while registered at Scarbrough College or at the University of Toronto’s Faculty of Arts and Science will graduate with high distinction if their cumulative grade point average is 3.50 or better and will graduate with distinction if their cumulative grade point average is between 3.20 and 3.49. Other students with a cumulative grade point average of 2.20 or better will be considered on an individual basis.

Toronto Undergraduate Student Society of Universities is asking students to demonstrate their understanding of the University's financial aid policy. Applications may be submitted to the Counselling Services (Room S-302) and the Registrars Office (Room S-415).

Deadline: November 1.

Applications will be accepted after the deadline, but funds will only be available to students who demonstrate financial need.

Toronto Memorial Bursary
Available to students enrolled in the Creative Programme in International Honours Studies returning from work or study in the U.S. to complete the final year of their degree on the basis of financial need.

Two or more students qualify on this basis.

Application required.

Deadline: September 30.

R.S. Pickering Placement Bursaries in Administration
Available to students enrolled in the Creative Programme in Arts Administration undertaking Placement, on the basis of financial conditions during that period. (Applications are required.)

Awarded by the Corporation of Massey Hall and Thompson Hall.

Gordon Bursary
Available to a full-time degree student who has completed at least one year at the University and who can demonstrate financial need.

Student Assistance Programme
Available to citizens or permanent residents of Canada who are financially disadvantaged and who demonstrate financial need. Applications may be submitted to the Counselling Services.

The Admissions and Awards Office number for OSAP inquiries is 918-7990.
Academic Regulations

Student responsibility:

Students are responsible for making themselves familiar with the information in this Calendar, particularly with this section, as well as instructions published periodically by the Registrar’s Office. Students whose registration contravenes the regulations will be withdrawn from courses. Members of the Registrar's Office and the Counselling Services Office will assist students in interpreting the regulations and exploring 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 Programmes for the 1995 Summer Session (May to August) and the 1995-96 Winter Session (September to May). The College reserves the right to change without notice any information contained in this Calendar, including any rule or regulation. The publication of information in this Calendar does not bind the University to the provision of courses, Programmes or facilities as listed herein.

Enrolment limits:

Scarcroft College reserves the right to limit the number of registrants in any Programme 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 in A-level courses.

Photo identification cards:

All students are required to have a photo identification card. The identification card serves as both a proof of registration and a library card. Once the registration for the session has been made, the card must be presented to the Registrar's Office for validation. The validation sticker remains in effect from September to August. Therefore, it is not necessary for a 1995 Summer Session student who was registered in the 1994-95 Winter Session to present the card for validation again until the 1995-96 Winter Session. Students who do not have a photo identification card should contact the Registrar's Office. Cards are provided free of charge to all new students. A fee is charged to replace cards.

Final Credit Winter Summer
Letter Value Session Session
Y Full Course Sep.-May May-August
P Half Course Sep.-Dec. May-June
S Half Course Jan.-May July-August
H Half Course Sep.-May May-August
A Full Course Sep.-Dec. May-June
B Full Course Jan.-May July-August

Hence, ANT301 is an elementary course in Anthropology taught throughout the session and worth a full course credit. PHIL350 is an advanced course in Philosophy taught in the second term and worth one-half a course credit. (In the Student Telephone Service, it refers to the last digit of the telephone course identifier indicates campus with Scarroft College)

In systems using semester hours as the credit unit, "Y" and "P" courses would be considered equivalent to six semester hours of credit and "S" and "H" courses would be the equivalent of three semester hours of credit.

Exclusions, Prerequisites and Corequisites

1. Exclusions:

A student may not register for a course which lists, as an exclusion, one which the student is also taking or has already passed.

2. Prerequisites:

A student must have passed the prerequisite course before enrolling in the course being described. Instructors are permitted to waive prerequisites if they feel that there are adequate grounds for so doing. If a student registers in a course without meeting the prerequisite and without obtaining a specific waiver, he / she may be withdrawn from the course at any time during the session. Students who are not withdrawn from the course remain in it at their own risk, for lack of the prerequisite is not grounds for special consideration.

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.

Corequisites:

Students must either already have passed the corequisite course, or must enroll in it at the same time as they take the course being described. Instructors are permitted to waive corequisites if they feel that there are adequate grounds for so doing. If students register in a course without meeting its corequisite, or if they withdraw from the
Course selection

In selecting their courses, students must adhere to the following regulations:

1. Prerequisites and co-requisites for each course, as stated in the course descriptions, must be met, unless waived by the instructor.

2. Students may not register for credit in a course if they have already passed another course shown in the course description as an exclusion to that course.

3. Students may not re-register for credit in a course if they have already passed that course. Students may re-register in a course they have taken, but failed. In such cases, both registrations in the course are shown on the student's record, and both grades count in the student's grade point average.

4. Students may not register for credit in a course which is a specific prerequisite for a course they have already passed.

5. Where students may not register in courses for credit, they may register in them as extra courses. In such cases, both registrations in the course are shown on the student's record but the second grade is not included in the student's grade point average or does it count towards the degree.

6. Students may normally select as many courses as they wish with each session. Students should, however, note the following:
   - The usual load for a full-time student in the Winter Session is five courses.
   - The usual maximum load for a student in the Summer Session is two courses.
   - Students who are on probation are strongly advised to carry no more than an average course load. Should they choose not to follow this advice they do so at their own risk.
   - In the Winter Session students are assigned to no more than 6.0 courses before September. Students wishing to enroll in more than 6.0 must wait until September to add them.

7. Students who wish to register in courses in the St. George or St. Basil campus should consult pages 225 and 227 of this Calendar.

8. Full-time students are those students who register in at least four courses in the Winter Session.

9. Students who are restricted on admission to part-time studies may have a term course load of no more than 3.0 in the Winter Session or 1.0 in the Summer Session until they have completed at least three courses and have a cumulative grade point average of at least 2.0. Term course load is calculated as follows:

<table>
<thead>
<tr>
<th>1st term</th>
<th>2nd term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y courses</td>
<td>1.0</td>
</tr>
<tr>
<td>F courses</td>
<td>1.0</td>
</tr>
<tr>
<td>S courses</td>
<td>1.0</td>
</tr>
<tr>
<td>H courses</td>
<td>0.5</td>
</tr>
<tr>
<td>A courses</td>
<td>2.0</td>
</tr>
<tr>
<td>B courses</td>
<td>0.0</td>
</tr>
</tbody>
</table>

10. Students must register for their courses in accordance with instructions issued by the Registrar's Office. Students who wish to change their registration:
   - may do so only until the deadlines for adding and withdrawing from courses, stated in the "Academic Calendar" of this Calendar;
   - must notify the Registrar's Office of any change through the Student Telephone Service or by means of a course selection form, submitted by the appropriate deadline.

11. Where multi-sectioned courses have a common examination, students registered in the evening section of the course may be required to sit an examination during the day.
Student Telephone Service

The Student Telephone Service is normally available from 7:00 a.m. to 7:00 p.m. on Monday to Thursday and from 7:00 a.m. to 5:00 p.m. on Friday. At certain times of the year the hours and days are extended. For more information, see the registration instructions for the session.

Service to the hearing-impaired

Access to the Student Telephone Service is available by the Bell Relay or by contacting the Special Services Office via TDD at (416)978-8060.

Student Telephone Service fee

Incidental fees each session include a Student Telephone Service fee. Students who do not use the service may request a refund by submitting a refund form to the Registrar’s Office by the appropriate deadline. See the fees information published each session for deadline dates. Further information on the Student Telephone Service is included in the registration materials.

Course changes

Students may add courses or withdraw from courses without academic penalty up to the dates stated in the Academic Calendar on page 5, either through the Student Telephone Service or by submitting a course selection form to the Registrar’s Office. Students who make changes through the Student Telephone Service should end their course by listing their course to ensure that the change has been processed properly. They will not receive written confirmation of the change but it will be recorded in the detailed log kept by the University of activity in the Student Telephone Service. At the time the students a course to their record they are accepting responsibility for fees payment for. Students who withdraw from courses by the appropriate deadline may be entitled to a fee adjustment. See the fees information published each session for more information.

Adding a course

Some courses have a restricted admission and require approval before students are allowed to enroll in them. A list of restricted

Degrees

ScARBOROUGH COLLEGE STUDENTS MAY EARN A Bachelor of Arts, a Bachelor of Science or a Bachelor of Commerce degree. Students may elect to receive a B.A. or a B.Sc. degree only after having completed the requirements for a three-year degree or an Honours (four-year) degree. The B.Com. may only be completed as part of a four-year degree. Students who wish to graduate must notify the Registrar’s Office either through the Student Telephone Service or by a degree request form by 15 February for graduation at the Spring Convocation or by 31 August for graduation at the Fall Convocation. Students are advised, however, to make their requests in the first term of their final session in order that possible problems may be solved well in advance of Convocation. Degrees are conferred at university convocations, held twice annually: the Spring Convocation held in June and the Fall Convocation held in November. Students who have requested their degree will be mailed complete information about the time and arrangements in March for the June Convocation and in October for the Fall Convocation.

Degree requirements

In the context of the degree requirements, the word "course" refers to one full course or two half courses. Students who first registered at the College before the 1980 Summer Session may, if they wish, complete the degree requirements outlined in the 1988/89 Scarborough College Calendar. Students who transferred at the College before the 1980 Summer Session may, if they wish, complete the degree requirements outlined in the 1979/80 Scarborough College Calendar.

To qualify for a three-year degree, students must:

1. pass at least fifteen courses;
2. complete the requirements of a Major Programme or a College Programme or two Minor Programmes. Combinations of programmes used to meet this requirement must include at least eight different courses.
3. earn a cumulative grade point average of at least 1.00.
Honours and Bachelor of Commerce

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

B.A., B.Sc. and B.Com. degrees

The type of degree student receives is determined by the Programme completed. (See the list of Programmes on page 16 for the type of degree towards which the Programme leads.) Where students use a combination of three programmes to satisfy the requirements of an Honours degree, in order to receive a B.Sc., two of the three must be in the sciences. Where students use two Major or College programmes to satisfy the requirements of an Honours degree, in order to receive a B.Sc., one must be in the sciences. Where students use two minor programmes to satisfy the requirements of a three-year degree, in order to receive a B.Sc., both must be in the sciences.

Unless otherwise approved by the Programme supervisor, students completing the Specialist Programme in Management and Economics or Management and Economic Theory must complete the Programme described in the 1992-93 Calendar or a subsequent Calendar to receive a Bachelor of Commerce degree. (Prior to 1992-93 these Programmes led to a Bachelor of Arts degree.) For students completing the requirements outlined in the 1978 or the 1979/80 Calendar, the type of degree is determined by the number of Science credits completed.

Graduation with high distinction and with distinction

Scarborough College students who have completed at least ten full courses while resident at Scarborough College at the University of Toronto's Faculty of Arts and Science will graduate with high distinction if their cumulative grade point average is 3.50 or better and will graduate with distinction if their cumulative grade point average is between 3.20 and 3.49. Other students who complete their course work with a high distinction will be considered on an individual basis.

Transfer Students

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

Upgrading three-year degrees

Students who have elective to graduate after having completed 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 diplomas 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 wish to receive certification of completion of an Honours degree, should notify the Registrar's Office by means of a degree request form.

"Second degree" requirements

Students beginning a second degree are normally exempted from first year of the degree requirements by being granted five (5.0) credits, regardless of the number of previous degree.

Students who hold a B.A., B.Com. or B.Sc. from the University of Toronto will be considered for extension to a second degree programme only of an alternative type (i.e. students with a B.A. degree must complete a B.Com. or B.Sc. degree).

Courses and Programmes

Programmes of Study

List of Programmes may be found on page 10.

Specialist Programmes

Specialist Programmes are designed to provide depth and intensity of study within limited area defined as a discipline, a group of disciplines, or a particular theme area of study. A Specialist Programme may be taken only as part of an Honours or Bachelor of Commerce degree and will consist of at least nine courses. There are no Specialist (Co-operative) Programmes.

Major Programmes

Major Programmes are designed to provide concentration in an area of study defined as a discipline, a group of disciplines or a particular theme area of study. A Major Programme may be taken as part of either a three-year or an Honours degree and will consist of six to eight courses.

College Programmes

College Programmes are designed to provide an organizing framework for students desiring wide-ranging but coherent program of study. A College Programme may be taken as part of either a three-year or an Honours degree.

Minor Programmes

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

Approved Individual Programmes

Students may propose individual Programmes of study, other than those described in this Calendar.

Such proposals will be considered reasonably only from students with cumulative grade point averages of 3.5 or greater. To be approved, individual Programmes should specify four courses for a Minor Programme, six to eight courses for a Major Programme and ten to twelve courses for a College Programme. The courses should all be offered on the Scarborough Campus and should form a logical programme. The student should submit a rationale for the proposal. Proposals should be made to the Vice-Principal and Associate Dean. Proposals must be submitted at least eight months prior to the session in which the students expect to graduate.

Course selection and registration for Programmes of study

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

2. While students in their first year of full-time study, or first four courses of part-time study, are not required to select a Programme, they should, when selecting their first year courses, consider carefully the requirements of any Programmes they may later choose to follow. Supervisors, instructors in A-level courses, and counsellors in Placement Services may be consulted for assistance. Students who have registered in a Programme should consult similarly with their instructors about the requirements of their Programme.

3. Students must register in their Programme at the Winter Session following the session in which they attain their fourth credit.

Programme transfer

Students who wish to transfer from one Programme to another after classes have started should discuss the proposed transfer with the supervisor of the new Programme and submit a programme selection form to the Registrar's Office. (Enrolment in the new course is limited and must be signed by the Programme supervisor.)

Certification of completion of Programmes

Students request certification of completion of their Programmes early in their final session of study at the College, at the same time as they request graduation.
Standing in a course

Grading scheme

<table>
<thead>
<tr>
<th>Grade</th>
<th>Point</th>
<th>Percentage</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.3</td>
<td>50-100</td>
<td>Excellent</td>
</tr>
<tr>
<td>A</td>
<td>3.7</td>
<td>80-84</td>
<td>Good</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
<td>77-79</td>
<td>Adequate</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
<td>76-72</td>
<td>Marginal</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
<td>63-66</td>
<td>Inadequate</td>
</tr>
<tr>
<td>CR</td>
<td>1.7</td>
<td>55-59</td>
<td>Inadequate</td>
</tr>
<tr>
<td>NCR</td>
<td>0.0</td>
<td>0-34</td>
<td>Inadequate</td>
</tr>
</tbody>
</table>

Grades of "E", "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 intended to be automatically convertible to the corresponding letter grade.

Credit/no credit courses

In some courses such as music performance courses or certain drama courses, specific letter grades may not be assigned. Students may instead be graded on a Credit/No credit (CR/NC) system.

The grade of "No 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.

In-financial standing

The Sub-committee on Standing may, on petition, assign a grade of "Aegrotat" (AR). This grade is assigned on the basis of work completed where medical or similar evidence demonstrates that a student is unable to complete course requirements within a reasonable time, and where a student has already completed at least 60% of the work of the course with a grade of C minus or better. Where a student is assigned Aegrotat standing, the course is not included in any grade point average.

Extra courses

Extra courses are those courses in which students may not register for credit (see "Course Selection" on page 218). The course and its grade will be reflected on the student's transcript (designated as an extra course) but the grade will not be included in any grade point average.

Overall standing

Grade point average

At the end of each summer session (May to August) and each winter session (September to May), each student will receive a cumulative grade point average (CGPA) which will be calculated for the student, and shown on the student's transcript.

A grade point average is calculated as follows: the grade points earned in each full course are divided by the number of full courses completed (or equivalent) taken. A sessional grade point average is calculated on the basis of all courses taken in a given session (winter or summer) having a grade point value.

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

Determination of academic status

Academic status will be determined as follows for students who have attempted at least two and one-half full courses (or equivalent) since beginning their studies at Scarborough College or at the University of Toronto Faculty of Arts and Science.

1. In good standing

2. On probation

3. Suspended or refused further registration

4. Probation continued

5. Suspended or refused further registration

Students who, by the end of a given session, have not completed a sessional grade point average of at least 1.60 in each session (winter or summer) until such time as they return to good standing.

Students who have previously incurred a three year suspension will be refused further registration in the College.
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 as Scarborough College students must adhere to the requirement that at least half of the courses (defined as the total number of courses that they have passed plus those they are currently taking) are Scarborough College courses. Students are not permitted to use courses of the University of Toronto as a substitute for the required distribution in a future session or by the time of graduation.

Other than Arts and Science credits
Students are not permitted to register for courses in Faculties other than Arts and Science unless they have received the permission of the Faculties Committee. Students are permitted to take courses in Arts and Science for transfer credit for such study. See also the sections "Study at other universities".

Study at other institutions or other divisions of the University of Toronto
Courses taken for credit by degree students while registered at the University of Toronto's Faculty of Arts and Science or at Woodrow College are included, and are not included in grade point average calculations. Courses taken for credit by students while registered at other institutions or other divisions of the University of Toronto are not included in grade point averages.

Study at other universities

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 as Scarborough College students must adhere to the requirement that at least half of the courses (defined as the total number of courses that they have passed plus those they are currently taking) are Scarborough College courses. Students are not permitted to use courses of the University of Toronto as a substitute for the required distribution in a future session or by the time of graduation.

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supervision from University of Toronto faculty. The University of Toronto offers Study Elsewhere opportunities at Laval and Sens but students may submit proposals for any accredited university that qualifies for a Study Elsewhere experience.

(ii) Student Exchanges

The University of Toronto operates several institutional-wide student exchange programs. Undergraduate programs include:

- University of the West Indies (Jamaica, Trinidad, Barbados)
- Humboldt University, Berlin, Germany
- The University of Toronto also participates in the University's region student exchanges:
  - Ontario/Sweden-Bratislava, Germany School Exchange
  - Ontario/France-Italy, France Student Exchange

For applications and further information regarding cultural issues, costs, arranging for a student visa, please call the International Student Centre's International Office at 978-6677. You must also receive approval from the Scarborough College Committee on Study Elsewhere to participate in these exchanges.

There are also some exchange programs with other universities within Canada. See the Assistant Registrar, Admission, Room 302-45 for further information.

(b) Grades and Accountability

Grades are assigned in courses offered by the University of Toronto. Grades are recorded on transcripts and are not included in any grade point averages. The student must arrange for the host university to send an official transcript to Scarborough College promptly after completion of the course. Students who do not register or who withdraw without academic penalty must arrange for a letter from the Registrar of the host university certifying that failure to meet the academic grade requirement will result in the notation of "no credit" being entered on the student's transcript at Scarborough College.

2. Transcripts

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

Contacts

The transcript records the following information:

1. Identification to the student full name and student number.
2. The student's academic record, assessed chronologically by session:
   - each course attempted, its abbreviated title, and its grade;
   - the cumulative grade point average;
   - the cumulative grade point average at the end of the session;
   - the student's academic status at the end of the session: in good standing, on academic probation, on probation for one year, suspended for three years, or suspended or on suspension deferred.
   - completion of degree and Program requirements, and date of conferment of degree;

Any academic honors awarded:

- scholarships, prizes, or medals awarded by the College or by the University, included on the Scarborough College Honors List, and graduated with high distinction or with distinction.

Ordering copies

Students may obtain copies of their academic transcripts, subject to reasonable notice and upon payment of a fee. Copies of transcripts may be requested in person or by letter only. As a student's signature is required to authorize release of the transcript (in order to prevent confidentiality of records), telephone requests cannot be accepted.

To order copies of transcripts, students should contact the Registrar's Office, Scarborough College, University of Toronto, 1265 Military Trail, Scarborough, Ontario, M1C 1A4. Payment by mail should take the form of a cheque or money order payable to "The University of Toronto".

There is no charge for copies of transcripts sent to other divisions of the University of Toronto. Copies of transcripts sent directly to educational institutions and other institutions or organizations must bear a replica signature of the Registrar and the official College seal. Copies sent directly to students do not bear the College seal and are marked "Student Copy". To prevent tampering, most institutional recipients must insist that the transcript copy be sent directly to them.

Policy on Access to Student Records

(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 consistency with flexibility in such a way as to ensure that:

(i) Students, alumni and former students are allowed access to their own academic records as is academically justifiable and administratively feasible.

(ii) The need for privacy in relation to the use of academic records is safeguarded as far as both internal university access and external public access are concerned.

(iii) There will be a basic university academic record in the hands of the appropriate staff at Scarborough College.

(iv) In keeping with the pluralistic nature of the University academic divisions may retain some flexibility in the implementation and application of the policies established within this document.

(e) Individual divisional regulations and procedures on access to student academic records, including the statement in the divisional calendar concerning such, shall be reported to the Provost of the Academic Policy and Programs. Any subsequent revisions shall also be reported.

(f) This policy supersedes the 1979 access policy for undergraduate student records and the 1981 access policy for graduate student records.

2. For the purpose of this policy:

(a) "student" means any person registered at the University for full-time or part-time study; and any person who has completed one year or more of study at the University and is the equivalent thereof as determined by the academic divisions of the University; and any person who has been registered at the University.

(b) "alumni" means any person who has received a degree of post-secondary diploma or certificate from the University, or any person who has completed one year or more of study at the University and is the equivalent thereof as determined by the academic divisions of the University; a person of such a degree, diploma or certificate, and is no longer registered at the University.

(c) "former student" means any person who was not a student or an alumnus or alumni who has been registered at the University and who is 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 degree, diploma, certificate, and other programs of study, subject only to the authority of the Vice-President and Provost and the Governing Council).
have copies made of the portion of his or her official student academic record as defined in Section 3(a) above. 
(c) A request from an alumna or alumnus or a former student to examine or copy 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 shorter period as a division may determine. 
(d) An alumna or alumnus 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. 

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)(ii) shall be granted to members of the teaching and administrative staff only with the prior expressed or implied consent of the student and, if applicable, in the case of a medical assessment, the originator (physician, etc.) of such. 

The Department of Alumni and Community Relations shall have access to appropriate personal information on students and alumni for the purpose of maintaining contact with alumni. 

Access by University campus organizations Recognized campus organizations in the University of Toronto shall have access to the information referred to in Section 3(a)(ii) as well as to the residential address and telephone number of students named by that organization for that legitimate internal use of that organization. The Students' Administrative Council, Graduate Students' Union, Association for Part-time Undergraduates, and The Newspaper shall be entitled to publish and distribute within the University community a University-wide directory of students (including undergraduate, graduate, full-time and part-time) giving the student's address and telephone number of students as long as there is a realistic provision for students to decline to consent to the disclosure of that information. 

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 be willing to distribute if reimbursed by the organization. 

The information to be distributed is intended to provide information about the University and is not intended for use by third parties for commercial or non-University organizations. 

An organization desiring to use the name and address information for the specific purpose for which it was provided. 

(c) Access by others 
(a) Requests for information of registration, a student gives implicit consent for a nominal service fee of information to be made freely available to all educational organizations. 
- The academic division(s), degree program(s) and the semester(s) in which a student is or has been registered. 
- The college received and date(s) of convocation. 

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 those portions of the record which comprise letters of reference (Section 3(b)(ii) which have been provided or obtained on the express or implied understanding that they shall be maintained in confidence. 
(ii) Personal and biographical information such as address and telephone number. 

The "official student academic record" shall be maintained at the University. For each type of information, academic divisions shall designate which document, form or medium contains the official version and how official copies of such information will be identified. 

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Policy on Access to Student Records

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 enrolment 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 to judge 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 at the University. For each type of information, academic divisions shall designate which document, form or medium contains the official version and how official copies of 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 those portions of the record which comprise letters of reference (Section 3(b)(ii) which have been provided or obtained on the express or implied understanding that they shall be maintained in confidence. A student may, however, be advised of the identity of the authors of any confidential letters contained in his or her official academic record.

(ii) A student's request to examine a part of his or her official student academic record shall be made in writing and shall be complied with by the responsible authorities within a division. Such compliance shall occur within 30 days of receipt of the request, or within such shorter 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) 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 secure 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 2(b)(ii)) 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 Procedures Act, 1977 of Ontario requires that where the good character, propriety of conduct or competence of a party is in issue in any proceeding in a tribunal to which the Act applies (such as the Academic Appeals Board of the Governors Council), the party is entitled to be furnished prior to the hearing with "reasonable information" of any allegations with respect thereto.

(b) Access by alumni and former students

(i) An alumna of 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, with the exception of those portions of the record which comprise letters of reference (Section 3(b)(ii) which have been provided or obtained on the express or implied understanding that they shall be maintained in confidence. A student may, however, be advised of the identity of the authors of any confidential letters contained in his or her official academic record.

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(iii) A student has 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.

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- The name and address information is not released to a third party.
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An organization desiring to use the name and address information for the specific purpose for which it was provided.
University Grading Practices Policy

5. Custody and retention of official student academic records
(a) Academic records of students are normally under the custodial responsibility of the academic division. Each academic division maintaining official student academic records shall draw up procedures for the retention, disposition of their records in consultation with the University Archivist and in accordance with an approved records schedule which is in compliance with this policy.
(b) Those portions of the official student academic record as defined in Section 5(a) shall be maintained permanently. Such 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 shall be responsible for student academic records and campus organization shall develop administrative procedures in support of the policy.
(c) Academic records shall be kept at all times under appropriate security.

University grading practices policy

The following is the text of the University grading practices policy. Text enclosed in square brackets [ ] has been added to clarify or interpret the policy as it applies to Scarborough College.

Purpose
The purpose of the University Grading Practices Policy is to ensure:
(a) that grading practices throughout the University reflect appropriate academic standards;
(b) that the evaluation of student performance is made in a fair and objective manner against these academic standards;
(c) that grade scales, while remaining suited to the particular circumstances of every division, are compatible with each other;
(d) that the academic standing of every student can be accurately assessed even when courses have been taken in different divisions of the University and evaluated according to different grade scales.

Application of policy
The Policy applies to all individuals and committees taking part in the evaluation of student performance in degree, diploma, and certificate credit courses (hereafter referred to as courses), excluding courses in the School of Graduate Studies.

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.

Determination of policy
A copy of the Grading Practices Policy as well as the description of the grade scale used is distributed to students upon initial registration and to all instructors at the beginning of each academic term.

Academic grading procedures shall be outlined in the text of the course description.

Evaluation of grading policy
The Policy in this part shall be reviewed by the Senate Quality Assurance Committee.

PART A: Grades

Grading scales
A grade scaling matrix is constructed for each division as a summary of the grading practices of the division.

Grading system
The grading system used is the following:

[Details of grading system and scale.

University Grading Practices Policy 233
Grade reporting
16 Only one letter scale, as referred to in 15(a), may be used in a division for assigning grades, but the numerical scale and the HOVTIL and CR/NCR scales, as referred to in 15(b) and (c) respectively, may also be used. The grades assigned in a course, however, must all be from the same scale.

17 Grades in each course shall be assigned according to the practice of the division offering the course.

Grades in each course shall be reported according to the practice of the division administering the program in which the student is registered (the reporting division).

(a) Grades shall be reported as assigned when the division offering the course is the reporting division, when the offering and reporting divisions use the same grade scale, and when the grades are assigned by HOVTIL or CR/NCR scales.

(b) In all other cases, grades shall be reported as converted to the scale used by the reporting division, and the conversion shall be made according to the tables of correspondence and translation tables defined in the Appendix.

(c) With the exception of HOVTIL and CR/NCR scales, two different letter grade scales may not be used on the same report card.

(d) A grade not reported in the form originally assigned by the offering division must be made available to the student in that form by the reporting division.

18 All non-grade symbols used in the reporting course results must correspond to the University-wide standard. A list of the currently approved symbols and their meanings is given in the Appendix.

19 The information in grade reports and transcripts must be communicated to the student, whether inside or outside the University, in a clear and meaningful way. To that end, transcripts issued by every division of the University must indicate the relationship between the division's own grade scale, the grade meanings, the basic letter grade scale, whether refined or unrefined by plus and minus signs, and the scale of numerical marks as well as the translation table. A list of non-grade symbols and meanings shall also be included in the transcript.

PART B: Grading Procedures

Approval of grades
Grades shall be recommended by the instructor to the chair or division head. The grades shall then be reviewed and approved following the divisional review procedure. Grades shall not be reported or released to students as official until the divisional review procedure has been carried out. The divisional review constitutes final approval of grades except when grades are changed on appeal.

B.1 Divisional Review Committee

In each division, a committee chaired by the divisional head or a designee, and where appropriate, an additional committee structure, with the chairs (or their designates) departments or other academic units of divisions serving as chairs, shall:

(a) 

(b) submit for approval the curriculum policies, the divisional level and oversee the general consistency of grading procedures with the division;

(c) formulate, approve, and administer the division's specific regulations concerning the grade scale or scales to be used, the assignment of non-grade symbols for course work, classroom procedures and approved methods of evaluation;

(d) review, adopt and approve course grades recommended by instructors. The grades recommended for any individual student in the professional faculties may be adjusted, according to his or her performance in the course or program as determined by the committee. The divisional committee has the final responsibility for assigning the official course grade.

20.2 Classroom procedures

To ensure that the method of evaluation in every course reflects appropriate academic standards and fairness to students, divisional regulations governing classroom procedures must be consistent with the practices below.

(a) As early as possible in each course (and no later than the division's last date for course enrollment) the instructor shall make available to the class, and shall file with the division or department, the methods by which student performance shall be evaluated. This should include whether the methods of evaluation shall be essays, tests, examinations, etc., the relative weight of these methods in relation to the overall score, and the timing of each major evaluation.

(b) 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 departmental.

(c) Student performance in a course shall be assessed on more than one occasion. No one essay, test, examination, etc. should have a value of more than 80% of the grade. Criteria for exceptions shall be determined by the division.

(d) [Exempt from this requirement are advanced seminar courses of supervised research or supervised reading courses. In such courses more than 80% of the final grade may be based on a thesis, a research essay or project, or as comprehensive examination.] In courses not regularly as 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 exceptions may be determined by the division.

[e] In A-level courses, at least one third of the final grade will be based upon a formal examination(s) in the Christmas examination period in December and/or in the final examination period in April and May (or in comparable examination periods in the summer session).

[f] In B-level, C-level and D-level courses, at least one third of the final grade will normally be based upon a formal examination(s). Alternatively, a supervised term test(s), valued at least one third of the final grade, may be substituted for the formal examination, upon the annual request of the instructor and approval of the appropriate Divisional Chair.

The following courses may be exempted from the requirement for examinations: upon annual request of the instructor and approval of the appropriate Divisional Chair: advanced seminar courses; supervised reading or research courses; field courses; and performance courses such as music, performance or art studio courses.

All courses which are exempted from the one-third examination requirement are reported annually to the Sub-committee on Curriculum & Standards of the Governing Council.

- Oral Examinations. At the discretion of the instructor of an oral examination may be required in addition to any written work. At the examination, the student must defend the ideas advanced in the paper. The grade assigned for the paper may be substantially affected by the result of the oral examination.

- The final grade of each part of an examination shall be indicated on the student's transcript. In the case of a written examination, the value shall be indicated on the examination paper.

- Commentary on assessed term work and time for discussion of it shall be made available to the student if so requested by the instructor.

- At least one piece of term work which is a part of the evaluation
of a student's performance, whether essay, lab report, review, etc., shall be returned to the student prior to the last date of fair withdrawal from the course without academic penalty.

[The following two categories of courses shall be exempted from the requirement; field courses such as Anthropology and Geology, independent research and senior essay courses, which are by definition "one-on-one" courses with continual monitoring throughout the year, and large single end-of-year assignments which constitute the basis of the final mark.]

(g) Grades shall be recommended by the instructor in reference to the approved grade scales on the basis of each student's overall performance.

In formulating their own regulations, divisions may add to items (a) to (g) and may adopt fuller or more specific provisions, for example, place of such terms as "a simple majority" (b), "one-third" of the final grade" (d), or in particularizing the evaluation methods referred to in (a) and (b).

E3 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 honoured;

ii) Students must be treated in a fair manner regarding their freedom of choice to attend classes or not without penalty.

Procedures

(a) The Vice-President and Provost, or the Provost, shall declare when a disruption of the academic program has occurred. The Provost shall take steps to inform the University community at large of the changes to be implemented and will report to the Committee on Academic Policy and Programs regarding the implementation of the procedures and changes to the status of the academic program.

(b) Individual instructors or multiple instructors 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, be discussed with students prior to the class in which a vote of the students present on the proposed changes is to be taken. Changes agreed upon by consensus should be forwarded to the department or division with a report on the attendance at the class where the vote was taken.

(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 multi-departmental faculties, with his or her recommendation, along with the results of any classroom votes. The chair or division head shall then make a decision.

(e) In cases where faculty are not able to convene, the instructor, with the prior approval of the chair in multi-departmental faculties or the division director, shall make changes deemed necessary to the classroom procedures. In the absence of the instructor, such changes will be made by the division head and require the approval of the Provost.

(f) Where courses are to be cancelled, approval of the divisional council is required. If the divisional counselor cannot meet, approval of the division head, or in the absence of the division head, the approval of the Provost, is required.

(g) Students must be informed of changes to classroom procedures. This may be done by circulating the changes in writing to the class, posting in the departmental and faculty offices, reporting to the divisional council, as well as listing in the campus press. Should classes resume 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 class, withdraw without academic penalty. Students who withdraw from a course prior to the last day of class as a result of a declared disruption shall receive a full refund of the course tuition fee.

(h) Where students have not attended classes that are 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 alternatives access to material covered 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 procedures 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 CR/NCR, or as deemed appropriate in the particular circumstances.

E4 Assessment in clinical and field settings

Dissertations may make reasonable exceptions to the classroom procedures described above in circumstances such as field or clinical courses where adherence to those procedures is not possible. Nevertheless, it is obligatory that the assessment of the performance of students in clinical or field settings should be fair, rigorous, valid, and reliable 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 at 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-way grade assessment and feedback to the student;

(c) Written documentation of the final assessment. In addition, for such clinical and field experiences, divisions must ensure that:

(i) Clinical and field assessors are fully informed regarding University, divisional and course policies concerning evaluation procedures, including the specific assessment procedure to be applied in any particular field or clinical setting.

Any exception from the above would require a detailed request with explanations for approval by the Governing Council.

E5 Grade review and approval process

[The Divisional Review Committees of Scarborough College and the Subcommittee on Marks Review.]

The following principles and procedures shall govern the grade review and appeal process:

(a) The distribution of grades in any course shall be predetermined by an system of quotas that specifies the number or percentage of grades achievable at any grade level.

(b) However, a division may provide broad limits to instructors setting out a reasonable distribution of grades in the division or overall program. 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 to be based on the approved grade scales or otherwise appear anomalous in reference to the Policy. It is understood that this section shall only be used when the class size is sixty 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 injurious to the students 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 appeals committee(s).

(e) Where grades have been adjusted by a 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. A description of the methodology used in the adjustments and a description of the divisional grades policy shall be furnished to the instructor.

(f) Where a department review committee changes course grades, the faculty office shall be so informed. Having done so, the faculty office shall relay this information, upon request, to the student under the instructor with a description as to the change and the methodology used.

(g) Participation in examinations including drop-out rates, mean arithmetic average, etc., should be provided to the Divisional Review Committee as background information where available. The committee will not use this information exclusively to judge whether a specific grades distribution is anomalous. Rather, the information should provide limits and hence appear to be based on the approved grade scales or otherwise appear anomalous in reference to the Policy. It is understood that this section shall only be used when the class size is sixty students or greater.

Apologies procedure
Every division shall establish divisional appeal procedures. Students may appeal grades according to the procedures established for that purpose in the division. The appeal may be made whether marks have been altered by the review process or not. These procedures shall be outlined in the divisional Calendar, and available upon request at the faculty or registrar's office.

For procedures for appeals concerning grades and grading practices, see "Procedures for requesting special consideration, petitions, and appeals" (page 249).

8.6 Student access to examination papers
(a) All divisions should provide access to copies of the previous years' final examination papers and other years' papers where feasible. Examinations may be graded on an anonymous basis on the recommendation of the division or committee of the division or school.

(b) All divisions should provide students with the opportunity within a reasonable time to review their examination paper where feasible. A recovery fee should be set to cover administrative costs including photocopying.

(c) All divisions should provide, in addition to the customary re-reading of papers and the re-checking of marks, the opportunity for students to petition for re-reading of their examination where feasible. A recovery fee should be set and returned where applicable.

For further details, please refer to "Procedures for requesting special consideration, petitions, and appeals" (page 240).

8.7 Conflict of interest
Where will uncertainty or a student has a conflict of interest, or is in a situation where a fair and objective assessment may not be possible, this should be disclosed in the chair or division head, with a view to ensuring that the Grading Practices Policy is followed in future.

Examinations
Examinations are held at the end of both terms in each session. Students who make personal commitments during the examination period do so at their own risk. No special consideration will be given and no special arrangements made in the event of personal commitments.

Information regarding dates and times of examinations will not be given by telephone. Students are responsible for reading the timetable carefully and attending 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.

Examination timetable conflicts
Students scheduled to write two examinations at the same time should report their conflicts to the Assistant Registrar (Secretariat and Scheduling) (Room 3420A, (161) 267-7540). Arrangements will not 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 Scarboro College. Requests for such arrangements must be made no later than two full weeks before the commencement of examinations and will not be considered after that time.

Students with three consecutive examinations
Students scheduled to write examinations in three consecutive time slots (these are morning, afternoon, and evening) may request special arrangements. Requests for such arrangements must be made with the Assistant Registrar (Secretariat and Scheduling) no later than two full weeks before the commencement of examinations. Requests will not be considered after that time.

Special consideration regarding examinations
Students requesting special consideration because they are unable to write a final examination must submit a petition, through the Registrar's Office no later than the last day of the examination period. Petitions must be accompanied by a medical certificate or some appropriate supporting evidence. Please refer to the information concerning petitions and medical certificates (page 240).

Identification cards
Students will be required to identify themselves at examinations by means of their University of Toronto photo identification card. Students who do not have this card should arrange to obtain one 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 Conduct and Behaviour on Academic Matters.
2. Students are advised to arrive at the examination room at least fifteen minutes before the scheduled examination time. Invigilators will begin the initial examination at the scheduled time.
3. No pencils shall be allowed in an examination room during an examination except the students writing the examination and those supervising it.
4. Candidates shall bring their photo identification cards and place them in a conspicuous position in the examination room. Students who do not have this card should arrange to obtain one well in advance of the day of their first examination.
5. Baggage rooms shall be deposited in areas designated by the invigilator and are not to be taken to the examination desk or on the desk. Students may dispose of their papers by placing them, closed, on the floor underneath their chairs.
6. The invigilator has the authority to ask the student to leave the examination anytime during the examination.
7. No materials shall be brought into the examination room and no exam shall be administered except those authorized by the Chief Provost or Examiner.
8. Candidates shall not communicate with one another in any manner whatever while the examinations are proceeding.
9. Candidates bringing any unauthorized material to an examination 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, 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 final ten minutes of an examination, during which time they shall remain quietly seated at their desks.

12 At the conclusion of an examination all writing within the answer books shall cease. The invigilator may refuse to accept the papers of candidates who fail to observe this requirement.

13 Examination books and other material issued for the examination shall not be removed from the examination room without the authority of the invigilator.

Smoking is not permitted in the examination rooms.

Procedures for requesting special consideration, petitions and appeals

Petitions for exceptions to the academic regulations

Students may request an exception to an academic regulation be made in their case. Such a request takes the form of a petition to the Scarborough College Sub-committee on Standing.

2 To enter a petition, the student prepares a written statement: stating clearly the special consideration requested; stating clearly the grounds upon which such special consideration is requested; that is, the reason(s) the student believes as set out in the rules is appropriate in this particular case; and appending documents to evidence special circumstances: medical certificates, etc.

3 Students who wish to submit medical certificates in support of their petitions must ask their physician: to verify that the student was examined at the time of the illness; to state the degree of disability involved; to indicate the duration of the disability caused by the illness; and to indicate the physician's professional opinion as to whether the student should receive special consideration with his or her academic work on medical grounds.

4 Students are encouraged to seek advice from counsellors in Counselling Services before entering a petition.

5 Students are notified in writing of the Sub-committee's decision on their petition.

Requests for special consideration in a course

Term work

1 Students who are unable to write a term examination, or whose performance is adversely affected by illness or other extenuating circumstances, or who are unable (for these reasons) to submit term assignments or permission to write make-up term examinations after the last day for submission of term work (please see Sub-committee Calendar section of this Calendar), students must submit a formal petition to the Sub-committee on Standing.

2 Students who wish to appeal the decision of their instructor with respect to a request for special consideration, must, as soon as possible, speak with or write to the Chair of the Division offering the course.

3 Where students' medical problems or other extenuating circumstances occur towards the end of the term, and where they must request extensions of time to submit term assignments or permission to write make-up term examinations after the last day for submission of term work (please see Sub-committee Calendar section of this Calendar), students must submit a formal petition to the Sub-committee on Standing. The petition must be submitted as soon as possible and no later than the last day of the relevant examination period.

Final examinations

1 Students who, for reason of illness or other extenuating circumstances, are unable to write a final examination, may request special consideration by means of a petition to the Sub-committee on Standing. Such petitions must be submitted as soon as possible and no later than the last day of the examination period.

2 When an examination has been missed because of illness, a student who requests special consideration must submit a medical certificate (see

Petitions, 3, above) certifying in addition that: - the student was incapable of attempting the examination at the scheduled time;

3 When an examination has been missed because of domestic affliction or other extenuating circumstances, a student must submit appropriate documentation from a professional such as a social worker or lawyer, stating the nature and extent of the problem and certifying that the student was incapable of attempting the examination at the scheduled time.

4 Where students suffer illness or domestic affliction that does not prevent their writing an examination, they are required to attempt the examination. If, after receipt of their final grade (AF) course grades are posted in the Meeting Place early in the second term and a complete statement of results is mailed to students at the end of the session; they believe that their performance has been adversely affected by the illness or other problem, students may then request special consideration by means of a petition to the Sub-committee on Standing. Where the Sub-committee accepts the validity of a petition, students will normally be allowed to write a special examination.

Students who are concerned that their performance may be affected by illness should visit a physician on the day of the examination to obtain both medical assurance and a medical certificate that may be submitted if a petition proves to be necessary. Petitions of this nature should be entered as soon as possible, because the deadline for such consideration is six weeks later than the relevant examination period.

Summer Sessions:

A & F courses - 31 July
B, H & Y courses - 30 September

Winter Sessions:

A & F courses - 31 January
B, H, S & Y courses - 30 June

(For deadlines for courses on other campuses, see the appropriate Faculty Calendar.) Where students are allowed to write final examinations the amended grade will stand whether it is higher or lower than the original grade.

5 A fee is charged for all special examinations in Scarborough College courses and the examinations are held as follows:

- Spring examinations are held in the August examination period.
- Summer and August examinations are held in the December examination period.
- December examinations are held in the study week immediately before the Spring examination period.

Instructions on confirming intention to sit the examination and on payment of the fee will be included in the reply from the Sub-committee on Standing. Failure to respond or pay the fee by the deadline given will result in loss of privilege to sit the examination. Students who are given one opportunity only to sit the special examination and are expected to be available for the entire special examination period. Students who, unavoidably, will be out of the Toronto area during the special examination period may apply to the registration exam at the main centre. Students who miss the special examination for legitimate reasons may petition the Sub-committee on Standing. The Sub-committee will expect very good supporting documentation, usually indicating a long term debilitating illness.

Requests for checking of marks in a course

Term work

Students who believe that their mark on a term examination or term assignment has been calculated incorrectly should speak with the course instructor as soon as possible to request that the mark be checked.

Final examinations

Students who believe that an error may have occurred in the calculation of their final examination mark may:

1 within six months of the relevant examination period, request from the Registrar's Office a photocopy of their final examination. A copying fee is required at the time of the request.

2 request a re-mark of the calculation through the Registrar's Office if students believe that an error has been made in the calculation of their examination mark. This request must be entered within six months of the relevant examination period. If an error is discovered and the mark is changed, the copying fee will be refunded. Where the mark calculated incorrectly would stand whether it is higher or lower than the original grade.
Final grade
Students who believe an error has occurred in the calculation of their final grade, may submit, through the Registrar's Office, a request for a recheck of the calculation of the grade. This must be done within six months of the relevant examination period. A recheck fee is required at the time of the request. If no error is discovered and the grade is changed, the fee will be refunded. Where the grade is changed the amended grade will stand whether it is higher or lower than the original grade. Instructors are required to re-read the final examination (if any) and to recheck the calculation of term and final marks before submitting a failing grade for any student.

Petition of marks in a course
Term Work
1 Students who wish to petition their grade on a term examination, an essay or other term assignment, must speak with the course instructor as soon as possible, and certainly before the end of term.
2 Students who wish to appeal the decision of an instructor with respect to the grading of term work may speak with or write to the Chair of the Division offering the course.
3 Students who wish to appeal their grade on term work returned to students only after the end of term (that is, after the instructor submitted grades for the course), may enter a formal petition to the Sub-committee on Standing. See above for information about the petition procedure. Petitions must be entered within six months of the final examination period and will be treated in the same way as requests for re-checking of a final examination (see below).

Final Examinations
1 Students who are absent from the Registrar's Office a photocopy of their final examination within six months of the relevant examination period. A copying fee is required at the time of the request.
2 After students have seen the photocopy of their final examination within six months of the relevant examination period, they may submit a petition to the Sub-committee on Standing to request re-reading of the final examination. The Sub-committee will authorize re-reading only where a student:
   - has articulated clear grounds for reconsideration of some part of the examination, addressing the substance of the answer in relation to the mark given, or otherwise identifying the nature of the alleged misevaluation.
   - has demonstrated that the alleged misevaluation is of a substantial nature: that is, that, in an objective answer, a correct response has been counted as incorrect, or that, in a subjective or essay answer, the response has been undervalued substantially.
   - If an error is discovered and the mark is changed, the copying fee will be refunded.
3 Where the Sub-committee on Standing authorizes re-reading of any examination or term of term work, it is the responsibility of the Division offering the course to arrange the re-reading and to authorize any change in the grade. It has been the usual practice in the Divisions to have examinations or term work re-read by the course instructor, unless some convincing argument is put forward by the student that the work be re-read by another member of the faculty. Claims of prejudice must be supported by a detailed account of incidents and, if possible, confirmation from a third party.
4 Where the Sub-committee on Standing authorizes re-reading of an examination or term of term work, the amended grade will stand, whether it is higher or lower than the original grade.
5 Instructors are required to re-read the final examination (if any) and to recheck the calculation of term and final marks before submitting a failing grade for any student.

Petitions concerning grading practices in a course
1 Students who believe an instructor has violated these Grading Practices Policy must discuss this complaint with the instructor, at the very least, no later than the fourth week of classes for violations relating to the announced schedule of Sub-committees and the marking scheme, and no later than the end of the final examination period for violations relating to changes in or divergence from the announced marking scheme.
2 If this discussion does not yield a satisfactory resolution to the problem, students may appeal the decision of the instructor to the Chair of the Division offering the course.
3 If the appeal does not yield a satisfactory resolution to the problem, students may appeal the decision of the Division to the Principal of the College.
4 Students who wish to withdraw from a course after the last day to withdraw without academic penalty on the grounds that the Grading Practices Policy was violated must also submit a petition to the Sub-committee on Standing.

Petitions to correct errors in course registration or for withdrawal from courses
Petitions to correct errors in course registration or for withdrawal from courses should be submitted as early as possible and no later than:
   - 30 June for Winter Session courses
   - 30 September for Summer Session courses

Academic Appeals
Students may appeal a decision of the Sub-committee on Standing to the Sub-committee on Academic Appeals. An appeal to the Sub-committee on Academic Appeals must be commenced no later than six months after the decision (to be appealed) has been communicated in writing to the student. An appeal is commenced by filing a notice of appeal (on an appropriate form) through the Office of the Vice-Principal and Associate Dean of the College. Full information may be obtained from that office.

The Academic Appeals Committee of the Governing Council
Students may appeal a decision of the Sub-committee on Academic Appeals to the Academic Appeals Committee of the Governing Council. Such appeals must be commenced no later than ninety days after the decision (to be appealed) has been communicated in writing to the student. An appeal is commenced by filing a notice of appeal (on an appropriate form) to the Secretary of the Appeals Committee. Full information may be obtained from the Secretary to the Appeals Committee, Office of the Registrar and Secretary, Room 106, Simon Head, St. George Campus, telephone (416) 978-8794.

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

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

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

This Code is concerned, then, with the responsibilities of faculty members and students, alike, as they relate to administrative or professional or social groups, but also co-operate in all phases of the teaching and learning relationship.

Such co-operation is threatened when teacher or student frustrates respect for the other — and for others involved in learning — in favour of self-interest, when both become a hostage of expediency. On both sides of the teaching relationship and in fulfillment of its own principles and ideals, the University has a role to play to ensure that academic achievement is not affected by misrepresentation, misconduct or misrepresentation, that the evaluative process meet the highest standards of fairness and honesty, and that malpractice or even much less equitable disruption is not allowed to threaten the educational process.
B. Offences

The University and its members have a responsibility to ensure that a climate that might encourage, or condone, or that 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 behaviour is unacceptable, as is any dishonesty or unfairness in dealing with the work or record of a student.

1. It shall be an offence for a student intentionally:

(a) to forge or in any other way alter or falsify any document or evidence required for admission to the University, or to alter, 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 aid or obtain unauthorized assistance in any academic examination or test or in connection with any other form of academic work;

(c) to persevere another person in any academic examination or test or in connection with any other form of academic work;

(d) to represent as one's own any ideas or expressions of an idea or work of another in any academic examination or test or in connection with any other form of academic work, i.e. plagiarism;

Plagiarism. The present sense of plagiarism is contained in the original (1531) 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, class 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 as once a

2. It shall be an offence for a faculty member intentionally:

(a) to forge or in any other way alter or falsify any academic record, or to use or make use of any such forged, altered or falsified record, whether the record be in print or electronic form;

(b) to cause a student, threat or otherwise in a classroom, laboratory or examination room a disturbance, which obstructs the teaching of a course or the holding of a test or examination.

4. The following are offences to the extent that they relate to the teaching and learning relationship. It shall be an offence for a faculty member and student alike intentionally:

(a) to copy or alter any stored information such as books, films, data files or programs from a

(b) to use in a substantial way any information storage, processing or retrieval system or its peripheral communications devices without proper authorization; or to mutilate, misuse, misfile, install or render unobtainable any such information, program, system or device or in any other way to deprive immediately or at some point in the future without authorization another member or members from using or having access to any such resource;

(c) to access any University computer, library, or other information storage, processing or retrieval system or any personal academic file without proper authorization.

5. A graduate of the University may be charged with any of the above offences committed intentionally while he or she was an active student, when, in the opinion of the Provost, the offence, if detected, would have resulted in a sanction sufficiently severe that the degree would not have been granted at the time that it was.

B.I. Punitive to Offences

1. (a) Every member of a party to an offence under this Code who intentionally:

(i) actually commit 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 been the committing the offence;

(iv) commits, counsels, procures or compels with another member to commit or be a party to an offence;

(v) commits, counsels, procures or compels with any other person who, if that person were a member, would have been committed or have been a party to the offence.

(b) Every member who, having an intent to commit an offence under this Code, does or omits to do anything for the purpose of carrying out that intention (other than mere preparation to commit the offence) is guilty of an attempt to commit the offence and liable upon conviction to the same sanctions as if he or she had committed the offence.

2. When a group is found guilty of an offence under this Code, every officer, director or agent of the group, being a member of the University, who directed, authorized or participated in the commission of the offence is a party to 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 offences involving students reflect the gravity with which the University views such offences. At the same time, these procedures and those which ensure students the right of appeal represent the University's commitment to fairness and the cause of justice.

C.I.(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 Erindale colleges, the college is deemed to be the faculty.

1. No hearing within the meaning of Section 2 of the Statutory Powers Procedures Act is required for the purposes of, or in connection with, any disciplinary proceeding or the determination referred to in Section C.I.(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 offence has been committed by a student, the instructor shall so 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 receivable in evidence against the student.

3. If after such discussion, the instructor is satisfied that no academic offence has been committed, he or she shall so inform the student and no further action shall be taken in the matter by the instructor, unless fresh evidence comes to the attention of the instructor in which case he or she may again proceed in accordance with subsection 2.

4. If after such discussion, the instructor believes that an academic offence has been committed by the student, or if the student fails or neglects to respond to the invitation for discussion, the instructor shall make a report of the matter to the department chair or through the department chair to the dean [Vice Principal and Associate Dean]. See also Section C.I.(b) 1.)

5. Where the dean [Vice Principal and 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 the evidence on which the apparently afforded the student an opportunity for response to the matter. In the case of the dean [Vice Principal and Associate Dean], the dean shall be informed, the chair of the department of the instructor shall be invited by the dean [Vice Principal and Associate Dean] to be present at the meeting with the student. The dean [Vice Principal and Associate Dean] shall conduct the interview.

6. Before proceeding with the meeting, the dean [Vice Principal and Associate Dean] shall inform the student that he or she is entitled to seek advice, or be accompanied by counsel at the meeting, before making, and is not obliged 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 receivable in evidence against the student in the hearing of any charge with respect to the offence or alleged offence in question. The dean [Vice Principal and Associate Dean] shall also advise the student, without further comment or discussion, of the sanctions that may be imposed under Section C.I.(b), and that the dean [Vice Principal and Associate Dean] is not obliged to impose a sanction but may instead request that the Provost lay a charge against the student. Where such advice and warning have been given, the statements and admissions, if any, made in such a meeting may be used or receivable in evidence against the student in any such hearing.

7. If the dean [Vice Principal and Associate Dean], on the advice of the department chair and the instructor, or the department chair, on the advice of the instructor, subsequently decides that no academic offence has been committed and that no further action in the matter is required, the student shall be so informed in writing and the student's work shall be accepted for normal evaluation or, if the student was prevented from withdrawing from the course by the withdrawn date, he or she shall be allowed to do so. Thereafter, the matter shall not be introduced into evidence at a Tribunal hearing for another offence.

8. If the student admits the alleged offence, the dean [Vice Principal and Associate Dean] or the department chair may either impose the sanction that he or she considers appropriate under Section C.I.(b) or refer the matter to the dean [Vice Principal and Associate Dean] or Provost, as the case may be. In no event shall the student in writing accordingly. No further action in the matter shall be taken by the instructor, the department chair or the dean [Vice Principal and Associate Dean] if the dean [Vice Principal and Associate Dean] imposes a sanction.

9. If the student is dissatisfied with a sanction imposed by the department chair or the dean [Vice Principal and Associate Dean], as the case may be, the student may refer the matter to the dean [Vice Principal and Associate Dean] or Provost, as the case may be, for reconsideration.

10. If the student does not admit the alleged offence, the dean [Vice Principal and Associate Dean] shall, 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 proceedings of or before the Tribunal, unless the chair of the hearing considers that such failure, defect or irregularity resulted in a substantial wrong, detriment or prejudice to the accused. The chair will determine at the opening of the hearing whether there is going to be any objection to defect, failure or irregularity.

12. No degree, diploma or certificate of the University shall be conferred or awarded, nor shall a student be allowed to withdraw from the course, except on the advice of the dean [Vice Principal and Associate Dean] or Provost, as the case may be, and the matter shall not be introduced into evidence at a Tribunal hearing for another offence.

C.I.(b) Divisional Sanctions

1. In an assignment worth 10 percent or less of the final grade, the department chair may:
   (i) the student admits guilt; and
   (ii) the student's work is limited to or to at most a mark of zero for the assignment.

2. In an assignment worth 10 percent or more of the final grade, the department chair may:
   (i) the student admits guilt; and
   (ii) the student's work is limited to or to at most a mark of zero for the assignment.

3. If the student does not admit guilt, or if the department chair chooses, the matter shall be brought before the dean [Vice Principal and Associate Dean].

4. One or more of the following sanctions may be imposed by the dean [Vice Principal and Associate Dean] where a student is found guilty of an academic offence:
   (a) a written reprimand;
   (b) a written reprimand and, with the permission of the instructor, the submission of the piece of academic work, in respect of which the offence was committed, for evaluation. Such a sanction shall be made in academic offences and where the student has committed previous offence,
5. The dean shall have the power to record any sanction imposed on the student's academic record and transcript for such length of time as he or she considers appropriate. However, the sanctions of suspension or a notice specifying academic misconduct as the reason for a grade of "NS" normally shall not normally be recorded for a period of five years.

4. The Provost shall, from time to time, institute appropriate actions for such offences. These guidelines shall be sent for information to the Academic Board and attached to the Code as Appendix "C".

C.8) Tribunal Sanctions

1. One or more of the foregoing sanctions may be imposed by the Tribunal upon the conviction of any student:
(a) a written reprimand;
(b) a written reprimand and, with the permission of the instructor, the resubmission of the piece of academic work, at which the offence was committed, for evaluation. Such resubmission may be imposed only for minor offences and where the student has committed no previous offence;
(c) a written reprimand and a grade of zero or a failure for the piece of academic work in respect of which the offence was committed;
(d) assignment of a penalty in the form of a reduction of the final grade in the course in respect of which the offence was committed;
(e) 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) 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;
(g) 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;
(h) 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;
(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:
(i) recommendation for expulsion from the University. The Tribunal has power only to recommend that such a penalty be imposed. In any such case, the recommendation shall be made by the Tribunal to the President for a recommendation by him or her to the Governing Council. Expulsion shall mean that the student shall be deemed to have failed to meet the requirements for the degree or program and that the student's name shall be deleted from the University record and transcript as of the date when the recommendation is made.

2. The Tribunal may, if it considers appropriate, refer any case to the Provost who may initiate a notice of the decision of the Tribunal and the sanction or sanctions imposed on the University newspapers, with the same notice of the student withheld.

NOTE: The College has a policy on the use of examiners in tests and examinations. Students should consult with instructors about whether the use of examiners is permissible in their course and if so which models are approved. The use of an unauthorized calculator may be treated as an academic offence.

Code of Student Conduct

A. Preface

1. The University of Toronto is a large community of teaching, administrative, and research staff and students involved in teaching, research, learning, and other activities. Student members of the University are adhering to a division of the University for the period of their registration in the academic program in which they have been admitted and as such assume the responsibilities that such registration entails.

2. As an academic community, the University governs the activities of its members by standards such as those contained in the Code of Behaviour on Academic Matters, which provides definitions of offences that may be committed by student members and which are deemed to affect the academic integrity of the University's activities.

3. The University sponsors, encourages, and tolerates many non-academic activities of its members, both on its campuses and away from them. These activities, although generally separate from the determinations made by the academic programs, are a valuable and important part of the life of the University and of its students.

4. The University does not stand in fœdus /pereant/ to its student members, that is, it has no general responsibility for the moral and social behaviour of its students, as it was in the wards. In the exercise of its disciplinary authority and responsibility, the University treats students as free to organize their own personal lives, behaviour and associations subject only to the law and to University regulations that are necessary to protect the integrity and safety of University activities, the peaceful and safe enjoyment of University housing and neighbours, or the freedom of members of the University to participate reasonably in the programs of the University and in activities in or on the University's premises. Strict regulation of such activities by the University of Toronto is otherwise neither necessary nor appropriate.

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 shield students from their civic responsibilities or add any further duties to these responsibilities. Conduct that constitutes a breach of the Criminal Code or other statute, or that would give rise to 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 procedures are appropriate in the circumstances.

6. The University must define standards of student behaviour and make provisions for student discipline with respect to conduct that jeopardizes the good order
and proper functioning of the academic and non-academic programs and activities of the University or its divisions, that endangers the health, safety, rights or property of the 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 civil and criminal law.

7. Nothing in this Code shall be construed to prohibit peaceful assemblies and demonstrations, lawful picketing, or to inhibit freedom of speech as defined in the University.

8. In this Code, the word "membership" includes locals, buildings and grounds.

9. In this Code, "student" means a member of the University:
   (i) engaged in any academic work which leads to the awarding of a degree, including all of the University's degrees; and
   (ii) engaged in any academic work which the University's library, including the University's library, materials, literature, library resources, computer facility or database, or
   (iii) who is a post-doctoral fellow.

10. In the following, the words "University of Toronto" refer to the University of Toronto and include any institutions federated or affiliated with it, where such institutions have been agreed upon by the University and the federated or affiliated institutions, with respect to the premises, facilities, equipment, services, activities, students and staff members of the federated or affiliated institutions.

Note: The University of Toronto has agreed that, when the premises, facilities, equipment, services, activities or offices of the University of Toronto are referred to in this Code, the premises, facilities, equipment, services and offices of the University of Toronto are included.

11. In this Code, where an offense is described depending on "knowing," the offense shall be deemed to have been committed if the person ought reasonably to have known.
4. Unauthorized entity or presence
No person shall, contrary to the expressed 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 expressed 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.

Appropriate uses for University connections to external networks are described, for example, in the policy document “Appropriate Use Policy for the OnIT Network.”

6. False charges
No person shall knowingly or maliciously bring a false charge against any member of the University of Toronto under this Code.

7. Filing in the commission of an offence
No person shall conspire, procure, counsel or aid a person in the commission of an offence defined under this Code.

8. Refusal to comply with sanctions
No person found guilty of 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 or a fireman or an employee of the University of Toronto without the permission of the officer of the University having authority to grant such permission.

Note: The President of the University or another senior officer designated by the President has been given the authority to grant such permission for the premises of the University of Toronto under the authority of the Governing Council of the University. The President has designated the Vice-President - Administration and Human Resources to exercise this authority. Various officers of institutions federated with the University of Toronto have authority to grant such permission with respect to the premises of the federated institutions.

C. Hearing Procedures
1. Whenever possible and appropriate, informal resolution and mediation shall be used to resolve issues of individual behaviour before resort is made to formal disciplinary procedures.

2. An Investigating Officer, who may be a student, 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 or to whom a complaint has been made, for the purpose of investigating a student or students of that division.

3. A Hearing Officer, who may be a student, shall be appointed for a term of up to three years by the council of each division to decide on complaints under this Code against student members of that division. Hearing Officers shall hold office until their successors are appointed.

4. If the Investigating Officer is, for any reason, unable to conduct an investigation, then the head of the division shall appoint another person as Investigating Officer for the particular case. If the Hearing Officer is, for any reason, unable to chair the hearing of any case, then the senior chair of the University Tribunal shall appoint another person as Hearing Officer for the particular case.

5. Where the head of the division has reason to believe that a non-academic offence as defined in this Code may have been committed by a student member or members of the division, the Investigating Officer will conduct an investigation into the case. After having completed the investigation, the Investigating Officer shall report on the investigation to the head of the division. If the head of the division concludes, on the basis of this report, that the student or students may have committed an offence under the Code of Student Conduct, the head of the division shall have the discretion to request that a hearing take place to determine whether the student or students have committed the offence alleged.

6. The hearing will be chaired by the Hearing Officer. The case will be presented by the Investigating Officer, who may be assisted and represented by legal counsel. If the right to a hearing is waived, or after a hearing, the Hearing Officer will rule on whether the student or students have committed the offence alleged and may impose one or more sanctions as listed below. The accused student or students may be assisted and represented by another person, who may be legal counsel.

7. Appeals against decisions of bodies acting under authority from the council of a division to hear cases arising out of the conduct of students of the University may be made to the Hearing Officer of the division, whose decision in such cases has been made by the council of the division.

8. Appeals against the decision of the Hearing Officer may be made to the Discipline Appeals Board of the Governing Council.

9. Where the head of a division has reason to believe that a non-academic offence as defined in this Code may have been committed by a group of students including students from that division and from another division or divisions, or those of the members of the other division or divisions involved, the head may convene the body of the other division or divisions involved who may then agree that some or all of the cases will be investigated jointly by the Investigating Officers of the divisions of the students involved and that some or all of the cases will be heard together by the Hearing Officer of any of the divisions agreed upon by the heads and presented by one of the investigating officers agreed upon by the heads.

D. Sanctions
The following sanctions or combinations of them may be imposed upon students found to have committed an offence under this Code.

1. Formal written reprimand
2. Order for restitution, rectification or the payment of damages
3. A fine or bond for good behaviour not to exceed $1000
4. Requirement of public service work not to exceed 25 hours
5. Denial of access to specified services, activities or facilities of the University for a period of up to one year

The following two sanctions, which would directly affect a student’s registration in a program, may be imposed only where it has been determined that the offence committed is of such a nature that the student’s continued registration threatens the academic function of the University of Toronto or any of its divisions or the ability of other students to continue their programs of study.

6. Suspension from registration in any course or program of a division or divisions for a period of up to one year
7. Recommendation for expulsion from the University
All students, whether part-time or full-time, are subject to the same admission standards, are governed by the same rules and regulations, and are required to satisfy the same degree requirements.

It is true, however, that students whose outside commitments prevent them from coming to the College during the day may find that they have less access to services in the University (although the Registrar's Office is open from 5:00 pm to 7:00 pm on class nights) and to the informal student network. Part-time students should try to make the time to develop contact with their fellow students and with faculty members, since this is an integral part of the University experience. When problems arise, evening students are encouraged to contact Counseling Services at (416) 287-7550. Counseling Services does not have regular evening hours but evening counseling appointments can be arranged. In addition, the Association of Part-time Undergraduate Students (APUS) serves as the voice of part-time students in the University and can be a source of help.

Admission to Scarbrough College
The same admission standards are applied to both full-time and part-time students. More information on admission for mature students and application deadlines is in the Admissions section of this Calendar. Any questions or concerns can be addressed by contacting the Assistant Registrar - Admissions at (416) 287-7529.

Awards
Part-time students are considered for many awards and scholarships on the same basis as full-time students. Some special awards and bursaries for part-time students are available through APUS. For further information see the Academic Regulations section of this Calendar.

Academic Regulations and Degree Requirements
Part-time students are governed by the same regulations as any other student. Students are responsible for reading through the section of the Calendar dealing with Academic Regulations. When in doubt, students should contact the Office of the Assistant Registrar - Counseling Services for assistance in interpreting regulations and their applications in particular cases. We have noted below several regulations that seem of particular relevance to part-time students. However, this list is not an exhaustive. It must be emphasized that all rules and regulations apply to part-time students and that the fact that a particular rule is not quoted below in no way suggests that it will not apply.

1) Because part-time students are often involved in their studies for more years than full-time students, part-time students may more frequently find that degree or programme requirements change during their academic career. When changes occur, students are usually advised very promptly for a limited period of time, to continue under the old rules. This does not usually apply to rules other than degree or programme requirements.

2) Although the College attempts to make available to part-time students as many evening courses as possible, students may occasionally find that it is to their benefit to take courses on other campuses of the University. Students, of course, may not receive credit twice for courses that are deemed to be exclusions.

3) Part-time students are governed by the same regulations concerning the dropping of courses as all other students.

4) Students should be aware that special circumstances may occur in which special consideration may be granted and should avoid taking any action that will harm them if the petition is denied.

Choosing a Programme
Since most students must complete their courses in the University in four years, courses are limited, evening offerings should plan their course offerings very carefully bearing in mind pre- and co-requisites and the fact that certain courses may not be available in a particular semester.

Programmes which are available in the evening are listed below with a brief description of the availability of courses. Students are encouraged to consult their Programme Supervisor in planning their course selection. The register or timetable is available in the Registrar's Office normally in February.

Economics Major and Minor Programmes
Each of the four courses specifically required for the Economics Major [ECO 100Y, ECO 101Y, ECO 300Y, ECO 301Y] is offered in the evening at least once each year. ECO 200Y and ECO 201Y are offered in both summer and winter evening sessions each year. ECO 300Y and ECO 301Y are offered in each winter evening session and in at least one year in each summer session. Each winter session, and in some summer sessions, at least one course at the B, C, or D level is offered.

English Specialist, Major and Minor Programmes
English courses are, as far as possible, cycled as follows:
ENG 101X - every two years.
ENG 102Y - every two years.
ENG 200Y - every four years.
ENG 201Y (ENG 301Y) - every four years.
Pre-1000 courses - at least every two years.
Post-1000 courses - at least every two years.
D-level courses - usually 2 half-courses every year.

History Specialist, Major and Minor Programmes
HIST 101Y offered in the evening normally every other year.
Upper level History courses - at least two offered every year.

Philosophy Specialist and Major Programmes
PHIL 101Y offered in the evening every other year.
PHIL 301Y, PHIL 302Y, PHIL 303Y - two of these courses are usually offered every year.

Psychology Specialist and Major Programmes
Programmes courses are normally offered annually in the evening and/or in the summer: PSY 101Y, PSY 201Y, and PSY 202Y, all of which are required for both programmes. As well, all courses in each of the second year and all D-level courses appear in the evening or summer on approximately a 3-year cycle.
Part-time students are also encouraged to check the offerings on the St. George campus, to which they access and with which they will not be identical to those at Scarbrough in a given year.

Sociology Minor Programmes
Some courses will be offered in the evening in both the summer and evening sessions every year. These will normally include SOC 101Y and one full-course equivalent at the level of C level. Every effort will be made to rotate these upper level courses so that students can complete the Minor Programme in Sociology in not more than three years.
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