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

1992/93
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IMPORTANT NOTICES

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

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

3 Changes in Regulations and Policies
The University has several policies that are approved by the Governing Council and which apply to all students. Each student must become familiar with the policies. The University will assume that he or she has done so. The rules and regulations of the Faculty (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.

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 to which they are admitted, and to strike a practicable balance between enrolment and available instructional resources. Sometimes such a balance cannot be struck and the number of qualified students exceeds the instructional resources that we can reasonably make available while at the same time maintaining the quality of instruction. In such cases, we must reserve the right to limit enrolment in the programs, courses, or sections listed in the Calendar, and to withdraw courses or sections for which enrolment or resources are insufficient.

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

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

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

A separate Calendar is published by 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 at Scarborough College may differ from those in the Faculty of Arts and Science.

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

ACADEMIC OFFENCES ARE A SERIOUS MATTER. See page 239.

The College has a fire safety plan. Copies are available from Physical Plant Services ($300).

The College has a No-Smoking Policy.
This is Scarborough College

Scarborough College, a constituent college of the University of Toronto, was established in 1964 to provide for the rapid growth in demand for undergraduate education forecast for the later 1960s. Since that time it has grown from a modest beginning of ten evening courses in a local high school to a thriving campus where 220 faculty teach more than 700 courses to 2500 students.

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

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

In 1982, the Vincent W. Bladen Library, named in memory of a former member of the Economics faculty of Scarborough College, was added to the E-wing. The library has more than 200,000 books, as well as thousands of maps and periodicals and a media centre with recordings and fine art slides. The Soil Erosion Research Laboratory opened in 1989 and the N'Sheemaehn child care centre in 1990.

Originally an integrated part of the University's Faculty of Arts and Science, in 1972 Scarborough College became a separate arts and science division of the University of Toronto which allowed it 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 degree at a rate of their own choosing. The College offers the only formal co-operative programmes in the University. The programme in Administration was offered for the first time in 1975. Since then co-operative programmes have been added in Arts Administration, in Computer Science and Physical Science and in International Development Studies. The Physical Sciences Specialist programmes have been redesigned and, in cooperation with the Faculty of Education, will include an Early Teacher Project component. Successful completion of the Early Teacher Project, together with the required academic standing will guarantee admission, on application to the Faculty of Education, for at least thirty students a year. Other special programmes include Nanoeconomies, Terrain and Environmental Earth Sciences, the Humanities and Women's Studies.

From the beginning faculty research and the training of graduate students have flourished at the College with Scarborough faculty also making an important contribution to the School of Graduate Studies through courses taught both here and on the St. George campus. 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 pursuit both in the undergraduate and graduate level.

Scarborough students have full and up-to-date resources available on campus, such as the excellent library, laboratory and computer facilities, residences and recreational facilities. They may also, as full members of the University of Toronto, take advantage of the resources of the University as a whole. On the Scarborough Campus, they can take part in or simply enjoy concerts and drama presentations. Many distinguished guests come to the College to give lectures in the Sailer series and the prestigious Warden lecture has attracted such notable names as Nobel Peace prize winner and former Prime Minister Lester Pearson, architect Raymond Moriyama, philosopher and theologian Hans Kung, scientist and television personality David Suzuki, union leader Bob White and Assembly of First Nations chief George Erasmus.

“N’Sheemaehn:” Child Care Centre

The name of the University of Toronto’s newest child care centre, pronounced N-she-em-n, comes from a native folklore in which the song of the chickadee (n’sheemaehn) reminds us to take good care of our little ones.

The centre, licensed for 46 children of students, staff, faculty and neighbourhood families, operates Monday to Friday 7:30 a.m. to 6:00 p.m. It is housed in a brand new building, officially opened October 10, 1990, and has already attracted praise both for its thoughtful design and fine programming and staff.

“N’Sheemaehn” is a non-profit centre, managed by a parent/university board of directors. The board has developed a philosophy for the centre which emphasizes the provision of a warm, secure and loving environment for the children which will foster the development of each child’s self-esteem, independence and self-control, while encouraging cooperation, consideration and empathy for others.

The centre has arranged for a purchase-of-service agreement with the municipal government to assist low-income families with the fees. As there is a very long wait for these subsidies, interested families are strongly advised to apply well in advance of the time child care will be needed. A child care bureau is available.

For more information about the child care centre or to arrange for a visit, please contact the Director, Ms. Kathleen McEady at (416) 287-7624.
Academic Calendar/Summer Session 1992

March 15 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).
April 1 Summer Session registration begins.
May 11 Classes for Y, A, F and H courses begin.
May 15 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). While applications will be accepted after this date where possible, the University cannot guarantee that a decision will be made on such applications before the commencement of classes.
May 15 Last day to add Y, A, F or H courses.
May 18 Victoria Day. University closed.
June 5 Last day to withdraw without academic penalty from A or F courses.
June 19 Last day of classes in A and F courses on the St. George and Erindale Campuses. Last day for submission of term assignments in St. George and Erindale Campus courses. H and Y courses continue to meet.
June 22-June 26 Final examinations in A and F courses on the St. George and Erindale campuses.
June 26 Last day of classes in A and F courses at Scarboroug College. 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.
June 29-July 3 Reading Week for H and Y courses.
June 29 Classes for B and S courses begin.
July 3 University closed for Canada Day holiday.
July 6 Last day to add B or S courses.
July 17 Last day to withdraw without academic penalty from Y or H courses.
July 24 Last day to withdraw without academic penalty from B or S courses.
August 3 Civic holiday. University closed.
August 7 Last day of classes for Y, B, H and S courses on the St. George and Erindale campuses.
August 10-August 14 Final examinations in Y, B, H and S courses on the St. George and Erindale campuses.
August 14 Last day of classes in Scarboroug College courses. Last day for submission of term assignments. Final examinations, if required, will be held in a class period of the last week.
Last day to request conferral of degree at the Fall Convocation.

Academic Calendar/Winter Session 1992/93

1992

March 16 Winter Session registration begins.
June 1 Last day for new students to apply for admission to the University for the courses beginning in September. While applications will be accepted after this date where possible, the University cannot guarantee that a decision will be made on such applications before the commencement of classes.
June 15 Course changes for students who registered early and course selection for other students begin.
September 7 Labour Day. University closed.
September 14 Classes for Y, A, F and H courses begin.
September 25 Last day to add Y, A, F or H courses.
October 12 Thanksgiving Day. University closed.
November 6 Last day to withdraw without academic penalty from F or A courses.
November 16 Christmas Examination Schedule published.
December 11 Last day of classes in the first term. Last day for submission of term assignments in F and A courses.
December 14-December 23 Term test and final examination period.

1993

January 4 Classes for B and S courses begin.
January 15 Last day to add B or S courses.
February 12 Last day to withdraw without academic penalty from Y or H courses.
February 15 Last day to request conferral of degree at the June Convocation.
February 15-February 19 Reading Week - no classes held.
February 26 Last day to withdraw without academic penalty from B or S courses.
March 15 Annual Examination Schedule published.
April 8 Last day of classes; no tests or 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 9 Good Friday. University closed.
April 10-May 7 Final examination period.
June 7 University Spring Convocations are likely to begin.
Faculty of Scarborough College

Division of Humanities

Classics
J. Warden, M.A. (Cantab.), Professor and Chair
A. Liddington, B.A. (Oxon.), Associate Professor
J.H. Corbett, M.A., Ph.D. (Toronto), Associate Professor
M.E. Irwin, M.A., Ph.D. (Toronto), Associate Professor
J.R. McDonald, B.A. (Alberta) Ph.D. (N. Carolina), Associate Professor
W. Helleman, M.A. (Toronto), Ph.D. (Free University, Amsterdam), Assistant Professor

Cognitive Science
R.L. Bittick, M.A., Ph.D. (Chicago), Professor
J.M. Kennedy, B.S.c., M.Sc. (Belf.), Ph.D. (Cornell), Professor
C.M. MacLeod, B.A. (McGill), Ph.D. (Washington), Professor
M.C. Smith, B.A. (Toronto), Ph.D. (MIT), Professor
A. Keene, B.A., M.A., Ph.D. (UCLA), Associate Professor
W.E. Saiger, M.A. (Alberta), Ph.D. (Toronto), Associate Professor
M.A. Schmuckler, B.A. (St. John's-Humphr), Ph.D. (Cornell), Assistant Professor
S. Sedivy, B.A. (Toronto), Ph.D. (Pittsburgh), Assistant Professor
R. Smyth, B.A. (Carleton), M.Sc., Ph.D. (Alberta), Assistant Professor

Drama
M.Q. Schonberg, M.A., Ph.D. (Toronto), Associate Professor
K. Plett, M.A., Ph.D. (Yale), Associate Professor
P. Skorszak, M.A., Ph.D. (Toronto), Associate Professor
H. Ohlendorf, A.M., Ph.D. (Stanford), Associate Professor

English
J.M. Margetson, M.A., Ph.D. (Toronto), Professor Emeritus
R.M. Brown, M.A., Ph.D. (New York), Professor
W.J. Howard, M.A., S.T.B. (Toronto), Ph.D. (Leeds), Professor
M.C. Cuddy-Kean, M.A., Ph.D. (Toronto), Associate Professor

J. Kay, M.A. (Glasgow), M.A., Ph.D. (Pensylvania), Associate Professor
A.J. Paisano, M.A. (McGill), Ph.D. (Birmingham), Associate Professor
M.S. Tsai, M.A., Ph.D. (Toronto), Associate Professor
K. Theil, M.A., Ph.D. (Yale), Associate Professor
A.C. Thomas, M.A., Ph.D. (Toronto), Associate Professor
E.P. Vouyiouka, M.A., Ph.D. (Toronto), Associate Professor
M. Guadagnini, M.A. (Western Ontario), Ph.D. (Toronto), Associate Professor
G. Leonard, M.A. (Florida), Ph.D. (Florida), Assistant Professor
J. Mansa, M.A. (Columbia), Ph.D. (Toronto), Assistant Professor

Fine Art
M. Gehrke, M.A. (Pittsburgh), Ph.D. (Toronto), Professor
G. Zavatski, M.A., Ph.D. (Turin), Professor
M.C. Shaw, M.A., Ph.D. (Beyaz Mawr), Professor
R. Seroff, M.A., Ph.D. (Toronto), Associate Professor
L. Canney, M.A. (Columbia), Assistant Professor
L. Varga, M.A., Ph.D. (Budapest), Assistant Professor
A. Breasse, M.A. (New Mexico), B.F.A. (York, Canada), Senior Tutor
D. Holman, R.F.A. (Kansas City Art Inst.), Senior Tutor
J. Hoagfuston, B.F.A. (Manitoba), Senior Tutor

French
G.F.R. Tremblay, L.L.B. (Mcgillier), Ph.D. (Yale), Professor Emeritus
C. Bertrand-Jennings, L.L.S. L.A. (Paris), Professor
W. Wynn, B.A. (St. John's), Professor
L. Ducat, B.A. (London), Ph.D. (Brown), Professor
W.J. Bancroft, M.A. (San Francisco), Ph.D. (Harvard), Associate Professor
J.A. Curtis, M.A., Ph.D. (Toronto), Associate Professor
W.J.庆典, M.A. (Anaconda), Ph.D. (Brisbane), Associate Professor
J.H. Magnussen, B.A. (Toronto), Ph.D. (Colorado), Associate Professor
S. Miller, M.A. (Toronto), Ph.D. (Strasbourg), Associate Professor
C. Evans, M.A. (Rochester), Ph.D. (Toronto), Senior Tutor
P. Maguire-Madoff, M.A. (Gao), Ph.D. (Washington), Senior Tutor
German
H. Wittmann, M.A., Ph.D. (Mass.), Professor
H. Fährmann, M.A., Ph.D. (Stuttgart), Associate Professor

History
J. J. Moir, M.A., Ph.D. (Toronto), D.D. (Presb. College, Montreal), Professor Emeritus
M. Elson, B.A. (Toronto, B.Phil., D.Phil. (Oxon.), Professor
M. Gerven, M.A. (Toronto, Professor)
L. J. Oster, M.A. (McMaster) M.Phil., Ph.D. (Yale), Associate Professor
W. A. Clark, M.A. (Toronto), Associate Professor
E. W. Dallow, A.M. (Harvard, Ph.D. (London School of Economics), Associate Professor
J. J. Pearl, M.A., Ph.D. (Northwestern), Associate Professor
L. B. Robertson, M.A. (McGill), Ph.D. (Toronto), Associate Professor
A. N. Sage, M.A., Ph.D. (Toronto), Associate Professor
F. Jacob, M.A., Ph.D. (York, Canada), Assistant Professor

Humanities
R. L. Bialaski, M.A., Ph.D. (Chicago), Professor
W. C. Graham, M.A., Ph.D. (Toronto), Professor
P. R. Leen, M.A., Ph.D. (Cornell), Professor
C. V. Howes, M.A., Ph.D. (Toronto), Professor
R. Skyrme, B.A., M.Litt. (Brussels, M.A., Ph.D. (Michigan), Associate Professor
J. Warden, M.A. (Cantab.), Professor and Chairman
H. Wittmann, M.A., Ph.D. (Mass.), Professor
W. J. Buncová, M.A. (Manitoba), Ph.D. (Harvard), Associate Professor
H. Opstandel, A.M., Ph.D. (St Andrews), Associate Professor
M. A. Schoenberg, M.A., Ph.D. (Toronto), Assistant Professor
P. O. Gough, M.A., Ph.D. (Toronto), Assistant Professor
C. Evans, M.A. (Oxford), B.Phil., B.A. (Toronto), Senior Tutor

Italian
A. Franceschetti, Dott. in Lett. (Padua), Ph.D. (Columbia), Professor

McAdoo, A.B. (St. Peter's, New Jersey), Ph.D. (New York), Associate Professor
J. A. Campbell, B.A., M.A., Ph.D. (Toronto), Senior Tutor

Linguistics
R. J. Boeckx, M.A., Ph.D. (Chicago), Professor
D. M. James, M.A. (Cornell), Ph.D. (Michigan), Associate Professor
I. D. Woods, B.A. (Bowdoin Coll.), Ph.D. (Mass.), Associate Professor
R. Sneath, B.A. (Carleton), M.Sc. (Alberta), Ph.D. (Alberta), Assistant Professor

Music
J. Mayo, G.T.C.L. (Trinity Coll. London), M.A., Ph.D. (Toronto), Assistant Professor
W. Breen, B.A. (B.A. (McMaster), Ph.D. (Toronto), Assistant Professor

Philosophy
F. W. Gock, M.A., Ph.D. (Toronto), Professor
W. C. Graham, M.A., Ph.D. (Toronto), Professor
I. H. Sobel, M.A. (Iowa State), Ph.D. (Michigan), Professor
R. P. Thompson, M.A., Ph.D. (Toronto), Professor
D. B. Cooch, M.A., Ph.D. (Toronto), Associate Professor
G. P. Nelson, B.A., M.A. (Simon Fraser), Ph.D. (Cantab.), Associate Professor
W. E. Seager, M.A. (Alberta), Ph.D. (Toronto), Associate Professor
L. Lange, B.A., M.A. (McMaster), Ph.D. (Toronto), Assistant Professor
S. S. Seton, B.A. (Toronto), Ph.D. (Chicago), Assistant Professor
W. F. Freeman-Sobell, B.S., B.A. (Rice), Lecturer

Spanish
P. J. Lazo, M.A., Ph.D. (Cornell), Professor
R. J. Coates, B.A., M.Litt. ( Bristol, M.A., Ph.D. (Michigan), Professor
K. Codd, B.A. (McGill, M.A. (N.Y.), Ph.D. (Toronto), Senior Tutor

Women's Studies
C. Bertrand-Jennings, L.L.B. (Paris, Ph.D. (Wasey St), Professor (French)

J. A. Very, B.A. (McMaster), M.Phil., Ph.D. (Yale), Associate Professor (History)

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A. Bramen, M.A. (New Mexico), B.F.A. (York, Canada), Senior Tutor (Fine Art Studio)
J. Hoogervorst, B.F.A. (Manitoba), Assistant Professor (Fine Art Studio)

Division of Life Sciences

Biology
J. C. M. Ritchie, B.Sc. (Aberdeen), Ph.D. (Sheffield), D.Sc. (Aberdeen), F.R.S.C., Emeritus
F. M. Gurney, B.A., M.A., Ph.D. (Toronto), Professor Emeritus
R. Rosenstrauch, B.Sc. (Calgary), Ph.D. (B.C. (B.C.), Professor
J. R. Brown, B.Sc. (Carleton), Ph.D. (Texas), Professor

C. A. G. C. K. C. G. W. (Rhodesia), M.Sc. (Natal), Ph.D. (Manitoba), Professor
J. W. Crabb, B.A., M.Sc., Ph.D. (McGill), Professor
C. Nails, B.Sc., B.Phil., D.Sc. (Univ. College London), Professor
J. C. Silver, B.Sc., Ph.D. (CIT), Professor

A. H. Weatherley, B.Sc. (Sydney), M.Sc. (Uni. Glas.), Professor
D. D. Williams, B.Sc. (Univ. Coll. N. Wales), Dip.Ed. (Liverpool), M.Sc., Ph.D. (Wales), Professor

G. W. Williams, B.Sc., Ph.D., D.Sc. (Liverpool), P.R.S., Professor

J. J. Younkin, B.A. (Vicetia), M.Sc. (Cornell), Ph.D. (Western), Professor
R. E. Dzeng, B.Sc., Ph.D. (UCD), Assistant Professor
M. F. Hisao, B.S. (St. Peter's), M.S. (Fordham), Ph.D. (Queen's), Associate Professor
G. W. J. Sloman, B.S.C. (Windsor), Ph.D. (Univ. College London), Associate Professor
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N. E. Williams, B.Sc. (Georgia), M.Sc. (Waterloo), Ph.D. (Toronto), Assistant Professor
C. Peckett, B.Sc., M.A. (Toronto), Senior Tutor

Psychology
G. H. Biederman, B.Sc. (CUNY), Ph.D. (NYU), Professor
G. C. Capel, B.A. (Mich.), M.A., Ph.D. (Win.), Professor
K. K. Dine, B.A. (Wellesley), Ph.D. (Mich.), Professor
I. A. Lieb, B.A. (Princeton), Ph.D. (Princeton), Professor
J. D. Kennedy, B.Sc., M.Sc. (Stell.), Ph.D. (Princeton), Professor
C. M. Macleod, B.A. (McGill), Professor
N. W. Milgram, B.A. (U.C.A.L., Ph.D. (Chicago), Professor
L. E. Petri, B.S., M.A. (Louisiana), Ph.D. (Florida), Professor
M. A. Smith, B.A. (Toronto), Ph.D. (MIT), Professor
J. R. Anderson, B.A. (McGill), Ph.D. (Cornell), Associate Professor
G. O. D. O. A. (Irvine), Associate Professor
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J. E. Henderson, B.Sc. (Toronto), B.Phil., Assistant Professor
M. A. Sempecker, B.A. (Queen's), Ph.D. (Cornell), Assistant Professor
Division of Management and Economics

Economics
L. Tashio, B.A., M.A., Ph.D. (Cambridge), Professor
A. Henry, B.A. (Western), Ph.D. (Professor), Professor
D.E. Campbell, B.A. (Queen’s), Ph.D. (Princeton), Professor
J. Cohen, B.A. (Cambridge), M.A., Ph.D. (California), Professor
K. Howse, B.A., M.Sc. (London), M.A., Ph.D. (Cambridge), Professor
M. Krahn, S.B. (M.I.T.), M. Phil. (Yale), Professor
S. Horton, B.A. (Cambridge), Ph.D. (Harvard), Associate Professor
W. Milne, B.A. (Victoria, B.C.), M.A. (Toronto), Ph.D. (Ottawa), Associate Professor
J.C. Parker, B.A. (Manitoba), M.A. (Toronto), Ph.D. (Ottawa), Associate Professor
M. Baker, B.Com. (Toronto), M.A. (York, Canada), Ph.D. (Michigan), Assistant Professor
K. McKenzie, B.Com. (Saskatchewan), M.A. (Calgary), Ph.D. (Queen’s), Assistant Professor
J. Tenp, A.A. (Un. Nacional de Colombia), M.A. (Iowa), M.A. (Toronto), Assistant Professor
D. Trefler, B.A. (Toronto), M.A. (Cambridge), Ph.D. (Un. Nacional de Colombia, L.A.), Associate Professor

Management
O. Burton, B.A. (Tel Aviv University), Ph.D. (M.I.T.), Professor
S. Cohen, B.A. (Harvard), M.F.P. (Kennedy School of Gov’t), Ph.D. (Harvard), Professor
G. Huang, B.Sc. (Trent), M.Ed (Toronto), Ph.D. (Bath, Assistant Professor
J. Ramsey, B.A. (California, Berkeley), M.Sc. (Victoria), B.Ed. (Toronto), Ph.D. (York, Canada), Assistant Professor
A. Wang, B.A. (Toronto), M.B.A. (York, Canada), C.M.A., Assistant Professor
T. Loevitz, B. Comm. (Toronto), C.A.
M.B.A. (York, Canada), Senior Tutor

Division of Physical Sciences

Astronomy
R.G. Carleberg, B.Sc. (Saskatchewan), M.Sc., Ph.D. (U.B.C.), Professor
C. Dyer, B.Sc., M.Sc., Ph.D., Professor
P.F. Krounbi, B.Sc., M.Sc., Ph.D., Professor
Chemistry
A.J. Kreger, B.A. (Cornell), Ph.D. (Illinois), F.R.S.C., Professor Emeritus
R.A. McClelland, B.Sc., Ph.D., Professor
R. Morris, B.Sc. (Waterloo), Ph.D. (U.B.C.), Professor
T.J. White, B.Sc. (Georgia Inst. Tech.), Ph.D. (Harvard), Professor
W. Walker, B.Sc., Ph.D. (Nottingham), Professor
S. Fraser, B.A. (Oxford), Ph.D. (Cambridge), Associate Professor
D.J. Donaldson, B.Sc. (Carleton), Ph.D. (Cambridge), Assistant Professor
K. Henderson, B.Sc., M.Eng., Senior Tutor
J. Potter, B.Sc. (Birmingham), M.Sc. (Windsor), Senior Tutor
A. Verma, M.Sc., M.Eng., Senior Tutor
L. Eunis, B.Sc., Senior Tutor
N.E. Mitchell, B.Sc. (Guelph), Tutor

Computer Science
C. Dyer, B.Sc., M.Sc., Ph.D., Professor
W.H. Enright, B.Sc. (British Columbia), M.Sc., Ph.D., Professor
J. von zur Gathen, Ph.D. (Zurich), Professor
A. Meldelsohn, B.Sc., M.Sc., Ph.D., (Princeton), Professor
V. Hachtrich, B.A. (Princeton), Ph.D. (Harvard), Associate Professor
H. Guo, B.A., B.Sc. (Am. U.B.C.), Ph.D. (Brown U.), Associate Professor
G.J. Capic, B.Sc. (U.B.C.), Senior Tutor
P. Lamsky, B.Sc. (McGill), M.Sc. (Toronto), Tutor
N. Cheng, B.Sc., Tutor

Geology
N. Eyles, B.Sc. (Leicester), M.Sc. (N.F.D.L.), Ph.D. (East Anglia), D.Sc. (Leicester), Professor
J.A. Wengstat, B.Sc. (Reading), Ph.D. (Alberta), Professor
K.W. Howard, B.Sc., M.Sc., Ph.D. (Birmingham), Associate Professor
A. Mohajer, B.Sc. (Tehran), Ph.D. (London), Associate Professor
G.L. Moltkem, M.Sc., Ph.D. (USSR), Adjunct Professor
R.T. Pynn, B.Sc. (Brock), Special Lecturer

Mathematics
E.W. Ellers, Ph.D. (Hamburg), Professor
J. Freudenthal, B.Sc., M.A. (Wroclaw), Ph.D. (U. of Salford), F.R.S.C., Professor
S. Halperin, B.Sc., M.Sc., Ph.D. (Cornell), F.R.S.C., Professor
E. Mendelsohn, B.Sc., M.Sc., Ph.D. (McGill), Professor
P. Selick, B.Sc., M.Sc., Ph.D. (Princeton), Professor
K.W. Sharpe, M.Sc., Ph.D. (Yale), Professor
J.B. Walk, B.Sc., M.A. (British Columbia), Ph.D., Professor
R.O. Bowles, B.Sc., Ph.D. (Toronto), Associate Professor
J. Skok, D.Phil., Oxford, Associate Professor
J.G. Harris, M.S., Ph.D. (Chicago), Assistant Professor
S. Chua, B.A. (Guelph), M.Sc. (McMaster), Senior Tutor
D. Hall, B.Sc., Senior Tutor
M. Hurjigan, B.Sc., M.A., M.Sc., Senior Tutor
E. Moore, M.A. (Manchester), Ph.D., Senior Tutor
S. Rosehill, B.Sc. (C.U.N.Y.), Senior Tutor
N. Shawley, M.A. (York), Tutor
S.C. Treptowski, M.Sc., Tutor

Physics
H.C. Corben, M.A., M.Sc. (Melbourne) Ph.D. (Cananda), Professor Emeritus
R. Fawcett, M.A., Ph.D. (Cambridge), Professor
A. Griffin, M.Sc. (British Columbia), Ph.D. (Cornell), Professor
A. Jacob, B.A.Sc., B.Sc. (Waterloo), Ph.D. (Illinois), Professor
J.D. King, B.A. (Saskatchewan), Ph.D. (Cananda), Professor
M.F. Lee, M.A., Ph.D. (Cambridge), Professor
P.J. O’Donnell, B.Sc., Ph.D. (Glasgow), Professor
J.M. Perez, B.A.Sc., M.Sc. (Toronto), Ph.D. (Cambridge), Professor
C. Quick, M.Sc., Ph.D. (Windsor), Senior Tutor
G. Loria, B.Sc., M.Sc. (Toronto), Tutor

Statistics
M. Evans, B.Sc. (Western Ontario), M.Sc., Ph.D., Professor
S. Chua, B.A. (Guelph), M.Sc. (McMaster), Senior Tutor

Division of Social Sciences

Anthropology
T.W. McNaughton, B.A. (McGill), M.A., Ph.D. (Harvard), F.R.S.C., Professor
F. D. Burton, B.A., M.A. (NYU), Ph.D. (Convent), Professor
M. Lambert, B.A. (McGill), M.A., Ph.D. (Michigan), Professor
J. Boddy, B.A. (McGill), M.A. (Calgary), Ph.D. (U.C.B.), Associate Professor
M. Landa, B.A. (Buenos Aires), M.A., Ph.D. (Toronto), Associate Professor
L. Sawicki, B.A., M.A. (Manitoba), Ph.D. (Toronto), Associate Professor
H. Shroeder, B.A. (Penn State), Ph.D. (Colorado), Associate Professor
R.W. Shirley, M.A. (Stanford), Ph.D. (Columbia), Associate Professor
G.S. Gillison, B.A. (McGill), Ph.D. (Convent), Assistant Professor

Geography
R.B. Brey, B.A. (Dalhousie), Ph.D. (Sheffield), Professor
B. Greenwood, B.Sc., Ph.D. (Bristol), Professor
J.R. Miron, B.A. (Queen’s), M.A. (Penns.), M.Sc., Ph.D. (Toronto), Professor
E. Belk, B.A., M.A. (London, Ph.D. (Toronto), Professor
M.B. Burris, B.A., Ph.D. (Sheffield), Associate Professor
A. Price, B.Sc. (Wales), M.Sc., Ph.D. (McGill), Associate Professor
K. Randell, B.A. (Leicester), M.A., Ph.D. (Olive State), Assistant Professor

Political Science
S.J. Colman, M.A. (Oxon), Professor Emeritus
E.G. Andrew, B.A. (British Columbia), Ph.D. (London), Professor
R. Munzer, B.Ed. (New Brunswick), M.A. (Oxon), Ph.D. (Harvard), Professor
G. Skogstad, B.A. (Alberta), Ph.D. (British Columbia), Professor
S. Solomon, B.A. (McGill), M.A., Ph.D. (Columbia), Professor
K.S. Blair, M.A. (Glasgow), M.A. (Toronto), Associate Professor
D.B. Cook, M.A., Ph.D. (Toronto), Associate Professor
J. Edmonson, B.A. (West Australia), B.Sc. (London), M.A., Ph.D. (Toronto), Associate Professor
A. Rubinoff, A.B. (Allegheny), M.A., Ph.D. (Chicago), Associate Professor
Programmes of Study and Course Description

The following Programmes are offered at Scarborough College. All programs 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./S.Sc.

Arts - B.A.

Astronomy, Physics & Mathematics - B.Sc.

Biological Sciences - B.Sc.

Chemistry - B.Sc.

Cell and Molecular Biology - B.Sc.

Cognitive Science - 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.

Ecology & Environmental Studies - B.Sc.

Economics - B.A.

Economics & History - B.A.

Economics & Mathematics - B.A.

Economics & Political Science - B.A.

Economics & Quantitative Methods - B.A.

English* - B.A.

Environmental Chemistry - B.Sc.

Fine Art History - B.A.

Fine Art Studio - B.A.

French - B.A.

Geography - B.A./S.Sc.

History* - B.A.

Linguistics - B.A.

Management - B.A.

Management & Economic Theory - B.A.

Management & Economics - B.A.

Management & Language - B.A.

Mathematics - B.Sc.

Mathematics & Statistics - B.Sc.

Modern Languages - B.A.

Neuroscience - B.Sc.

Philosophy* - B.A.

* Students may select courses from a prescribed list of courses in the relevant discipline. Students must consult the appropriate discipline entry for details.
General Interest Courses

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

ASTB03S Great Moments in Astronomy
BI0B01Y Introduction to Biological Sciences
BI0B014F Environmental Biology
BI0C070F Theoretical Foundations of Biology I
BI0C071S Theoretical Foundations of Biology II
CLA0A1Y Classical Civilization
CLA0A2Y Greek and Roman Mythology
CSCA06S Computer Basics: Fundamental Concepts and Terminology
ENGAA1Y Reading Literature: The 20th Century
ENGB09Y American Literature: An Introduction
ENGB16Y Shakespeare
ENGB11Y Varieties of Drama
ENGB14Y Varieties of Fiction
ENGB35Y The Canadian Short Story
ENGB34Y The Short Story
ENGB50Y Women and Literary Study
FAR114F But Why Is It Art?
FARD4Y Twentieth Century Art
FRER83F Women and Literature in France
GERC01YF The Last Hundred Years
GLAC02Y Geological Hazards
GRK23F Modern Greek Music
HISA01F The Twentieth Century World
HUMA82Y Prologue II
HUMH02Y Introduction to Literature
ITAC17S Italian Cinema
MGT04Y Introduction to Management
MUS01F Music of the World’s Cultures
MUS01F Music of the World’s Cultures
MUS01F Music of the World’s Cultures
MUS14S Jazz
PHIL02Y Social Issues
PHYA02Y Concepts of Physics
SPH15S The Civilization of Spion II

Anthropology

Discipline Representative: J. Boddy (287-7281)

Anthropology is the study (or science) of humankind, dealing with the origin, development and nature of human beings and their culture. As such, it is concerned with human phenomena in the widest possible terms, both biological and cultural. It differs from other social sciences in its comparative and historical approach, and in its intimate links with the physical and natural sciences. Anthropology examines societies today and in the past, both complex civilizations and relatively small-scale non-literate societies. From this vantage point Anthropology attempts to arrive at an understanding of the common 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, Prehistoric Archaeology, Physical Anthropology and Anthropological Linguistics. At the present time, Scarborough College offers courses in the first three areas. Students interested in inquiring about appropriate course sequences in one of the sub-fields are invited to consult with any of the faculty in the appropriate sub-field and with the Supervisor of Studies.

Specialist Programmes in Anthropology

Supervisor: L. Sawchuk (287-7547)

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

The Year Programme requires completion of twelve full-course equivalents, no less than ten 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 within the Programme are to be selected as follows:

1. ANT105Y Introduction to Anthropology
2. Two courses from among the following: ANT115Y Biological Anthropology, ANT120Y Social and Cultural Anthropology, ANT125Y Introduction to Prehistoric Archaeology
3. Six full-course equivalents from the remaining B.C. or D-level courses in Anthropology
4. One full-course equivalent in a field methods or supervised reading and research course

ANTC05Y
ANTC125Y
ANTC055Y
ANJT125Y

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

Major Programme in Anthropology

Programme Supervisor: L. Swart (287-7134)
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 Program requires completion of six full-course equivalents in Anthropology including:

1. ANT105Y Introduction to Anthropology
2. One course from among the following: ANT115Y Biological Anthropology, ANT120Y Social and Cultural Anthropology, ANT125Y Introduction to Prehistoric Archaeology
3. Four additional full-course equivalents from B.C. or D-level courses in Anthropology, of which at least one must be at the C or D level.

Students are required to consult with the Supervisor regarding course selections and requirements and are strongly urged to take at least seven full-course equivalents in disciplines other than Anthropology within the three-year degree programme.

ANT101Y Introduction to Anthropology

Telephone: 00710163

An introduction to the fields of anthropology through which the student will obtain the anthropological view of the nature and diversity of humans. The first term deals with Physical Anthropology and Prehistoric Archaeology, concentrating on the biological basis and the evidence for the origin 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 tutorials.

Exclusion: ANT100

Session: Winter Day, Summer Evening

ANT101Y Anthropology in the Americas: An Anthropological Perspective

Telephone: 00720333

The origin and development of native cultures in the New World, with particular emphasis upon changes due to European contact. Special emphasis will be placed on social dynamics and focus on Latin America.

B. Shirley

Winter Day

ANT104Y Introduction to Archaeological Materials

Telephone: 00720463

An introduction to the study of prehistoric and historic archaeological materials including ceramics, lithics, metal and faunal bone. Students will carry out analyses on samples of artifacts, learning about their construction, their functions and their development through time. These studies will lead to consideration of the survival and importance of "traditional" technologies in both developing and modern countries.

Exclusion: ANT100

Session: Winter Day

Ant120Y Comparative Slavery

Telephone: 00720753

An examination of slavery as an institution in several areas of the world, including Brazil, Africa, the Caribbean, and the United States. An effort will be made to examine the modern consequences of slavery as well.

Exclusion: ANT101

Session: Winter Day

ANT111Y Human Behaviour in the Old Stone Age

Telephone: 00721133

The development of art, technology, religion and lifeways of hunters and gatherers living from two million to ten thousand years ago. We will look at the development of retouching, the development of distinct species of technology and the development of social change and the reconstruction of the environment.

Exclusion: ANT101

Session: Winter Day

ANT1125 The Rise of Civilization

Telephone: 00721253

Examination of the two major cultural developments of the past ten thousand years out of which emerged modern human societies; the agricultural and urban transformations. The course emphasizes the ecological-adaptive factors and the archaeological evidence bearing on the beginnings of permanent human settlements, the domestication of plants and animals, and the development of complex social and technological systems.

Exclusion: ANT101

Session: Winter Day

ANT115Y Biological Anthropology

Telephone: 00721156

A survey of the human place in nature: origin (Fossil and ongoing evolution), basic to the course is an understanding of the social theory of evolution and the principles, processes, evidence and applications of the theory. Laboratory projects augment the student contact with the methods and apparatus 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 organization and behaviour of non-human primates, taxonomic and classificational, palaeontological principles and human origins.

Exclusion: ANT101

Session: Winter Day

ANT116Y Cultures of Modern Canada

Telephone: 00721463

This course has two objectives: on the one hand, it explores the regional and ethnic diversity of contemporary Canadian cultures; on the other, it examines forces which operate, however successfully, to blend Canadians together and foster a coherent world-view. The first objective entails consideration of localized case studies, e.g. of agriculturally based religious communities, Newfoundlander outports, indigenous groups (Native Canadians and Metis), and others. The second involves searching for shared cultural meaning in Canadian literature, myth and symbol, mass media, and political culture. Issues of particular interest are Canada's place in a Western meta-culture, and the extent to which cultural technology both reflects cultural assumptions and implicitly shapes both.

Exclusion: ANT101

Session: Winter Day

ANT120Y Social and Cultural Anthropology

Telephone: 00722663

This course approaches to the understanding of social and cultural organization in societies of varying complexity but with emphasis on simpler societies. Comparative social institutions, E. O. W. kinship and marriage will be examined along with economic, political and ritual elements. Some attention will also be given to belief systems and symbolic thought as well as some stability and change in society and anthropological perspectives on these social issues.

Exclusion: ANT204

Session: Winter Day

ANT121Y Primate Behaviour

Telephone: 00722263

An introductory course to the lifeways of non-human primates.
ANTC121 Research on the Social Behaviour of Non-Human Primates
Telephone: 00741243
The purpose of this course is to study non-human primates in a free-ranging habitat. Because the animals are habituated to humans, observation from dawn to dusk is possible. The field experience includes exploration of the impact of the local people on the environment and conservation of the monkeys. This field course costs around $2000 depending on location. Enrolment is limited to 10.
Prerequisite: ANTCC2 and permission of instructor.
Session: Winter Day
F.D. Barton

ANTC35F Quantitative Methods in Anthropology
Telephone: 00731353
A consideration of quantitative data and analytical tools, especially in archaeology and physical anthropology. Some elementary computing, and a review of program packages suitable for anthropological analyses will be included.
Exclusions: ANTIBA3, ECOB11, PSTY07, SOCIB0
Prerequisite: ANTIBA1, ANTIB15 and ANTIB26 are recommended.
Session: Winter Day
L. Swedich

ANTC375 Prehistory of Mexico and Mesoamerica
Telephone: 00733753
An attempt to understand the development and achievements of civilization in Mexico. We will consider the two main problems: the beginnings of agriculture and its effects on culture, and the forces which contributed to the emergence or disappearance of civilization. Students will become familiar with the art, crafts and architectural styles of the best known sites which typify the civilizations of the region.
Exclusions: ANTIB37, ANTIB16
Prerequisite: ANTIBA1, ANTIB03 and ANTIB38 is recommended.
Session: Winter Day
M. Latta

ANTC34Y Anthropology of Food
Telephone: 00735435
The role of food as nutrient and its social significance as symbol constitute the theme of this course. The evolutionary approach is taken as changes in the human diet over millennia are surveyed. The current implications of the transformation from gatherer-hunter to domesticate food source and its attendant redistributions of nutrients within society are background for issues in development as they specifically relate to food availability. Students are
asked to reflect on their food traditions as a means of understanding their nutritional and cultural practices. The course covers the history and evolution of various dietary practices.

Anthropology: 200 Level Courses

ANTB01Y: Ecological Anthropology
Prerequisite: ANTH01 and one other B or C level course in Anthropology.
F. D. Burton
Session: Winter Day

ANTB02Y: African Culture and Society I: Survey
Prerequisite: ANTH01 or permission of instructor.

ANTB21Y: Canadian Native Peoples
Prerequisite: ANTH01 or permission of instructor.
Corequisite: ANTH21B.
ANTC21B recommended.

ANTB31Y: Prehistory of North America
Prerequisite: ANTH01; ANTH20 recommended as prerequisite or corequisite.

ANTB41Y: Anthropology of Sex
Prerequisite: ANTH01; ANTH15

ANTC41Y: Anthropological Perspectives on Development
Prerequisite: ANTH01 or permission of instructor.

ANTC61Y: Human Origins
Prerequisite: ANTH01 or permission of instructor.

ANTC19FSY: Economic Anthropology
Prerequisite: ANTH01 or WSTA01 (HRS400); permission of instructor.

ANTC22FSY: Anthropology and Psychology
Prerequisite: ANTH01
Corequisite: ANTH20 and PSY50 recommended.

ANTC23FSY: Political Anthropology
Prerequisite: ANTH01

ANTC40Y: Anthropological Demography
Prerequisite: ANTH01; ANTH15 is recommended.

ANTC47Y: Human Osteology
Prerequisite: ANTH01 or another B level course in Anthropology.
(ANTH14 and ANTH15 recommended.)

ANTC51Y: Medical Anthropology
Prerequisite: ANTH01

ANTC60FSY: Fieldwork in Social and Cultural Anthropology
Prerequisite: Any B level course in Anthropology or IDS or permission of instructor.

Background to Modern Anthropology
Prerequisite: ANTH01 and one B level course in Anthropology or related disciplines.

Analysis of Archaeological Material
Prerequisite: Any B level course in Archaeology or related disciplines.

The Concept of Race in Anthropology
Exclusion: ANTH12.
Prerequisite: ANTH15 or one C level course in Anthropology.

New Perspective on Human Origins
Prerequisite: ANTH15 or one C level course in Physical Anthropology.

Environments
Prerequisite: ANTH15 or permission of instructor.

Theory and Methodology in Social/Cultural Anthropology
Exclusion: (ANTC14)(ANTC17)
Prerequisite: ANTH101 and ANTH120 or permission of instructor.

Arts.

Specialist Programme in the Arts
Superintendent: Janis Hoogstraten (287-7128)
The Specialist Programme in the Arts is designed for all students with a strong interest in the Arts. This programme provides opportunities for creative expression in the areas of Fine Art, Music, Drama, and Dance, 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 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 designed to provide career preparation for students who are interested in such fields as art 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 Arts Studio, Music.
   - In each case the courses taken are the same as those specified for the Major Programme in the chosen discipline.
   - Consult the calendar entries under the individual disciplines.

2. The Minor Component:
   - Two of the following areas, other than the area chosen as the Major Component:
     - Arts Administration
     - Fine Art History
     - Fine Arts Studio
     - Music

- Students should check these courses for prerequisites.

Creative Writing:

Creative Writing 1
ENGL40Y Creative Writing 1
ENGL60Y Independent Study: Creative Writing

Creative Writing 2
ENGL41Y, ENGL61Y

Drama:
DRA10Y, DRA11Y, DRA12Y
Drama

Music:
MUS10Y, MUS11Y, MUS12Y
Music

Music 2:
MUS20Y, MUS21Y, MUS22Y
Music

Fine Art Studio
FARA10Y, FARA11Y, FARA12Y
Fine Art Studio

Drama:
DRA10Y, DRA11Y, DRA12Y
Drama

Fine Art History
FARA10Y, FARA11Y, FARA12Y
Fine Art History

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Astronomy

Discipline Representative: C.C. Dyer

Astronomy is at the same time one of the oldest and one of the most dynamic areas of science. It is basically the attempt to understand the environment in which humanity developed, from the solar system in which we find our direct and recent origins, to the distant 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 aspects of the very first seconds in the evolution of our universe.

The full range of modern astronomical topics is covered in the introductory course ASTA03Y. For students wishing to further study in Astronomy, there are a number of B and C level courses, which are integral components of a number of the Physical Sciences Specialist Programmes. In addition, the course AST02Y 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 Programmes in Astronomy, Mathematics and Physics

Major Programme in Astronomy and Physics

ASTA03Y Introduction to Astronomy
Telephone ID: 0111036
A description of the solar system, sun, stars, galaxies and other phenomena of the Cosmos in which we live. The mechanisms which make our sun and other stars shine are explained, and the nature and evolution of our solar system, star systems, galaxies and the universe as a whole are discussed in a manner suitable for both the science elder 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 Questar telescope, students also have an opportunity to observe and to photograph heavenly bodies if they wish. Exclusion: ASTI05, 120, 200. Session: Winter Day
RG Carlberg

AST0105 Great Moments in Astronomy
Telephone ID: 01110253
An examination of the people, the background and the events associated with some major advances in astronomy. Emphasis is given to the role of a few key individuals and how their ideas have revolutionized our understanding of nature and the Universe. Implications of the revised outlook are also discussed. The course will focus on the first measurement of stellar distance, the prediction of the existence of Neptune; the discovery of the nature of stars; the proof of the existence of "isolated universes"; the birth of the theory of stellar structure; the detection of the cosmic microwave background 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 impact of one of the topics is required. Exclusion: AST5210
Prerequisite: Four full-course equivalents Session: Winter Evening

ASTB055 Celestial and Classical Mechanics
Telephone ID: 0112055
This course considers classical mechanics with particular emphasis on its origins and applications in celestial mechanics, particularly the study of the motions of bodies in planetary systems. Topics will include central force laws, Kepler's laws, conservation laws, Lagrange's equations, and an introduction to Hamiltonian mechanics.
Prerequisite: ASTA01Y, MATA24Y, PHYA01Y
Consequence: MATB41P, MATB42S, PHYB21S

ASTC01H Research Topics in Astronomy
Telephone ID: 0113043
Application of individual effort to reading and research on a topic of current interest. Research on some topic of current interest in astrophysics and write a report ("mini-thesis") on their work. The student is expected to gain an appreciation of the current knowledge in a particular topic of astrophysical interest and to become familiar with the basic methods of research. The topic will be selected by one of the instructors in consultation with the student. Formal lectures are replaced by regular consultation between 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 Kronberg. The bibliography is dependent upon the topic selected.
Exclusion: ASTA03Y or 321, PHYB21S
Permission of instructor Session: Winter Day

ASTC050 Structure and Evolution of Astrophysical Bodies
Telephone ID: 0115050
The structure and evolution of astrophysical bodies, particularly stars of various types is considered from its basis in various branches of Physics, and from the observational view. A number of areas of Physics come together to explain the structure and stability of stars, including gravitation, thermodynamics, radiation processes, and nuclear energy generation mechanisms. Of particular interest is the fragile balance among the various forces and processes, and failures in this balance will be shown to lead to various evolutionary tracks, leading from the birth of stars to the various possible end states for stars, such as neutron stars and black holes. The generation of the atomic elements by the nuclear processes in stars will be considered. There will also be some discussion of cooler objects, such as the planets, where the structure is typically more complicated due to the solid or liquid state of matter in these objects.
Prerequisite: ASTA01Y, ASTB055, MATA20Y
Consequence: MATB41P, MATB42S

ASTC155 Stellar Systems, Galaxies, and Cosmology
Telephone ID: 01135153
This course will consider the structure and evolution of collections of astrophysical bodies, usually starting at 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 course. A gravity approximation, leading to the simple Friedmann models of the universe, will be studied with an observational approach to determining limits on the large scale structure of the universe will be considered.
Prerequisite: ASTA03Y, ASTB055, PHYA01Y
Consequence: PHYC22Y
Offered 1993/94

Reference Number: 004011

Course: 004011

Programme: 004011

Faculty: 004011

Institution: 004011

Programme: 004011

Faculty: 004011

Institution: 004011

Catalogue Entry: 004011
Biological Sciences

Associate Chair: D.D. Williams
(Office S-549)
From its early beginnings as a descriptive science, biology has developed, particularly in the last few decades, into a sophisticated experimental science employing other basic sciences such as chemistry, physics, and mathematics.
Modern biology includes the study of structure and function of all living organisms, including man. Within biology various core areas may be distinguished: morphology and structure (anatomy), taxonomy, physiology, biochemistry, genetics and evolution, and ecology. In addition to their fundamental significance, certain of these areas are central to understanding and solving many problems currently confronting mankind.
Four Programs 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 core discipline(s). Note: - We have possible prerequisites for the introductory mathematics and physics courses (or in the case of the Ecology and Environmental Programme - mathematics, physics, geography, or geology courses) in the second, third, or fourth years of the Programmes. (2) The Major Programme: for students interested in Biology but wishing to combine it with other areas of interest.
Supervisors and other staff members should be consulted if you have questions about your Programme in Biology, or the year-to-year sequence of courses.
Major Programme in Biological Sciences

Supervisor: G. F. Fensterheim (Office S-526)
This Programme consists of BIO301Y plus 6 full-course equivalents in Biology. Note that at least 1 full-course equivalent must be in animal science and 1 full-course equivalent in plant science. The following are the plant science courses: BIO206Y, BIO239F, BIO245S, BIO257S, BIO277F, BIO283S, BIO285S, BIO307F, BIO310F, BIO312H, BIO331H, BIO413F, BIO427F.
Note that B. C. and D level courses can be taken in any year after the first, subject to the fulfilment of the necessary prerequisites.

Specialist Programme in Biological Sciences

Supervisor: G. F. Fensterheim (Office S-526)
This Programme must include the following 14 full-course equivalents of which at least 3 must be at the B. C. level (2.0 must be at the D level). Note that courses at the B. C., or D levels can be taken in any year after the first, subject to the fulfilment of the necessary prerequisites. However, CMB444Y (CHM405Y) Organic Chemistry is strongly recommended in the second year for students who plan to take Biochemistry.

Specialist Programme in Cell and Molecular Biology

Supervisor: J. Yenson (Office S-556)
This Programme must include the following 24 full-course equivalents of which at least 3 must be at the B. C. level (2.0 must be at the D level). Note that courses at the B. C., or D levels can be taken in any year after the first, subject to the fulfilment of the necessary prerequisites. However, CMB444Y (CHM405Y) Organic Chemistry is strongly recommended in the second year for students who plan to take Biochemistry.

Specialist Programme in Biochemistry

Supervisor: J. Yenson (Office S-556)
This Programme must include the following 24 full-course equivalents of which at least 3 must be at the B. C. level (2.0 must be at the D level). Note that courses at the B. C., or D levels can be taken in any year after the first, subject to the fulfilment of the necessary prerequisites. However, CMB444Y (CHM405Y) Organic Chemistry is strongly recommended in the second year for students who plan to take Biochemistry.

Courses from the following lists may be used to fulfill the requirement of the five full-course equivalents in category 2. Courses may be used to fulfill the requirement of three full-course equivalents in category 3 below.

Three full-course equivalents from the following: BIO215Y, BIO216Y, BIO217Y, BIO315S, BIO312H, BIO408S.

1 1/2 course equivalents in Structure and Diversity: BIO125F, BIO126F, BIO132F, BIO139F, BIO140S, BIO149P, BIO205F, BIO237F, BIO239F, BIO245F, BIO265F.

1 1/2 course equivalents in Physiology and Biochemistry: BIO207F, BIO209F, BIO217F, BIO229F, BIO231F, BIO247F, BIO269F, BIO275F, BIO277F.


6 Note that in the above items 2, 3, 4 and 5 courses with an * can be used to fulfill the requirements of one category only.

7 One full-course equivalent from categories 3, 4, 5 or 6 from BIO303Y or BIO307Y.

8 Three full-course equivalents in cognate disciplines: CHM201Y, PHY201Y, PHY202Y, PHY203Y, GLG201Y plus CSCI207S (CSCI207P or CSCI207F) or CSCI209F, CSCI209S.

9 For those interested in pursuing Theoretical Ecology, an additional MAT course should be considered.

10 A computer science, CSCI207S (CSCI207P or CSCI207F) or CSCI209F or CSCI209S is recommended.

BIO130Y Introductory Biology
Telephone ID #: 01130563
This course is designed for students who intend to pursue further study in Biology or other Natural Sciences. It offers a thorough consideration of basic biological concepts as they pertain to both plants and animals. Lectures will emphasize the energetics of living systems, the transmission and functions of genes, integrative functions in plants and animals and the origin and evolution of life. Specific topics include the chemical constituents of cells, cell structure and function, inheritances, the structure and function of genes, early developmental processes, mechanisms of development, cellular metabolism, photosynthesis, molecular basis of muscle contraction, nerve physiology, plant hormones, evolution, basic ecology. One two-hour lecture and one three-hour laboratory per week. Laboratory and discussion periods will supplement the lecture material. Exclusion: BIO100S, BIO105S.
Although this course has no prerequisites, a background in Biology and Chemistry is recommended. Session: Winter Day The Faculty.

BIO131Y Introduction to Biological Sciences
Telephone ID #: 01131663
An introduction to the central concepts of Biology and their interrelationships. The course is designed for students with no formal background in Biology but who have acquired some skill in reflection and in writing. Topics will include the functioning of cells and organisms and the relationships of organisms in space and time. The contemporary understanding of biological structures and functions will be illustrated by reference to common experiences. Biological and ecological topics will be relevant to current ethical and political controversies which require biological input for their solution. Reading and essay writing will be an integral part of the course, supplemented by lectures and discussion periods. Exclusion: BIO100S. Not open to students who are taking or have taken BIO105Y. Prerequisite: Either, two full-course equivalents in the Division of Humanities; or, two full-course equivalents in the Division of Social Sciences with permission of instructor. Session: Winter Day G. R. Williams.

BIO132Y Basic Microbiology
Telephone ID #: 01132063
This course will review the general properties of bacteria, fungi and viruses, their structure, function and relationship to man, employing selected organisms to demonstrate their significance in botany, earth sciences, and the health sciences. Laboratories include practical training in basic microbiological techniques. To gain awareness of the world of microorganisms and their physiology, genetics, structure and importance in industrial and the environment. To obtain proficiency in the handling and growing of microorganisms in the laboratory.
One two-hour lecture and three hours of laboratory each week. Exclusion: MPL207Y. Prerequisite: BIO203Y. Session: Winter Day T. E. A.

BIO136Y Genetics
Telephone ID #: 01326533
A lecture and laboratory course in basic genetics and genetogenes, with examples chosen from work on bacteria, fungi, Drosophila and vertebrates, including man. Topics include: Mendel's principles, linkage, mapping, structure of genes, genetic control of protein synthesis, recombinant DNA technology and its uses, regulation of gene activity, chromosome structure, mutation, Lectures, laboratory, problem session, discussion. Exclusion: BIO260F.
Prerequisite: BIO203Y. Session: Winter Day M. F. Elson.

BIO136Y Plant Physiology
Telephone ID #: 01326633
A basic lecture and laboratory course on the general physiology of plants. The green plant as a functional organism; water and salt uptake and translocation, water loss, mineral nutrition, carbohydrate, protein and lipid metabolism. Enzymology, Photosynthesis and respiration. Growth and development of plants. The objective of this course is to introduce the student to the science of plant physiology, and to provide a training in laboratory techniques and the presentation of scientific data in this field. Lectures and laboratory work. Exclusions: BOT132Y, BOT132S, BOT142Y. Prerequisite: BIO203Y. Session: Winter Day G. R. Ibrahim.

BIO137Y Fundamentals of Ecology
Telephone ID #: 01321263
This course is designed to introduce the student to the study of the interactions that determines the distribution and abundance of organisms. A course intended to promote the development of an ecological conscience. Importance of evolution in ecology; factors limiting the distribution of organisms such as adaptation, behaviour, and dispersal; attributes of populations; population estimation, life table analysis, estimation of the innate capacity for increase, and population growth; species interactions; competition and predation; theories of population regulation; attributes of communities: concept of the community, species diversity, community patterns and classification and succession; concept of the ecosystem; biomes of the world: community energetics; community nutrition; and other topics of general ecological interest. Exclusion: ZOO202Y, BOT330H. Prerequisite: BIO203Y. Session: Winter Day R. Bouma.

BIO141F Environmental Biology
Telephone ID #: 01321433
A course designed to explore the biological consequences of major selected problems facing Canada and the World which are of direct consequence to human activities. Each of the problems addressed will deal with the cause, the effects, and potential solutions. A short introduction section in the course will discuss a number of ecological principles that apply to communities in order to set the stage for interpreting the implications of these problems. The following will be among the topics discussed: sustainable development, the pesticide problem, the acid rain problem, the potential impact of increasing carbon dioxide levels on world climate, conservation and extinction of plants and animals, deforestation of the tropics and the human population problem. Two one-hour lectures per week, plus tutorial work per week. Permission of instructor. Session: Winter Day R. Bouma.

BIO171Y Animal Physiology
Telephone ID #: 01321763
The function of cells and the organ systems which have evolved to control the environment of the individual cell within the organism. Topics include: (i) body fluids and circulation, (ii) ion and osmoregulation, (iii) excretion, (iv) exchange, (v) nerve and muscle physiology. First term - nutrition, gas exchange, gas transport, body fluids, circulation, excretion, osmoregulation. Second term - sensory and motoric and control systems, integration.
Biological Sciences

Bladder and neuroendocrine systems, sense receptors, hormones.
Lectures and laboratory work. Exclusion: ZOO257Y
Prerequisite: BIOA093
Session: Winter Day
C. R. Girard

BIOB23Y Developmental Biology
Telephone ID: 01326163
The study of morphological change and underlying molecular and cellular processes which occur during the life history of an organism. An analysis of development in a variety of multicellular organisms. Particular reference will be given to the concepts that regulate gene activity is fundamental to development.
In the Fall term and the first half of the Spring term the principles of animal development are dealt with. The following model systems are employed - cynthia elegans, lens development, spermagony, myogenesis, frog metamorphosis and carcinogenesis.
In the last half of the second term aspects of plant development will be discussed. Topics will include seed germination, meristems and hormonal and environmental effects on plant development.
Lectures and laboratory work. Exclusion: ZOO257Y
Prerequisite: BIOA093
Session: Winter Day
J.R. Brown and C.D. Riggs

BIOB25F Vertebrate Histology: Cells and Tissues
Telephone ID: 01326053
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 three hours of laboratory per week.
Exclusion: ZOO351H
Prerequisite: BIOA093
Session: Winter Day
J. H. Younas

BIOB26S Vertebrate Histology: Organs
Telephone ID: 01326053
The histological structure of the major organ 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 three hours of laboratory per week.
Exclusion: ZOO251H
Prerequisite: BIOA093, BIOB285
Session: Winter Day
R. H. Tierney

BIOB31F Vertebrate Morphogenesis
Telephone ID: 01326053
A lecture and laboratory course on comparative morphogenesis of the vertebrates, dealing with their evolution and their anatomical and functional specializations as expressions of their responses to environmental challenges and selection pressures. Beginning with ancestral vertebrates, the evolutionary pathways leading to the more highly evolved and extinct vertebrates will be examined. Laboratory work includes study of prepared material and dissection of representative preserved specimens.
Exclusion: ZOO251H
Prerequisite: BIOA093
Session: Winter Day
A. H. Weatherley

BIOB39F Comparative Morphology of Fungi, Algae and Bryophytes
Telephone ID: 01326053
A survey course of the major groups of fungi and nonvascular plants with emphasis on the fungi and algae. A comparison of the structure, development and reproduction of representatives organisms will serve to define the diagnostic characteristics of the major groups and to reveal evolutionary relationships within and between these groups. The laboratories offer an opportunity to examine organisms which are mentioned in the lectures and text. Where possible, living specimens are used. Offered in alternate years.
Exclusion: BIO251Y
Prerequisite: BIOA093
Session: Winter Day
R. E. Dugdale

BIOB40F Comparative Morphology of Vascular Plants
Telephone ID: 01326053
A survey of the major groups of vascular plants including the club mosses, spike mosses, quills, ferns, horsetails, fernas, gymnosperms and angiosperms. A comparison of structure development and reproduction of representative organisms will serve to define the diagnostic characteristics of the major groups. Emphasis will be given to the seed plants and to evolutionary trends in their sexual reproduction. The laboratories offer an opportunity to examine living and fossil organisms which are dealt with in the lectures and text. Many examples used are plants native to Southern Ontario. Offered in alternate years.
Exclusion: BIO251Y
Prerequisite: BIOA093
Session: Winter Day
R. E. Dugdale

BIOB30F Ecology Field Course
Telephone ID: 01326053
Coverage of basic principles and selected techniques of animal and plant ecology. Students will study a variety of aspects of local ecosystems (both aquatic and terrestrial).
Format will consist of extensive field/laboratory work complemented by lectures and tutorials. Offered in alternate years.
Limited enrolment: 15
Exclusion: BIO300H
Prerequisite: BIO3012
Session: Winter Day
Members of Faculty

BIOC16S Marine Biology: Habitats and Communities
Telephone ID: 01331653
A course in selected topics of marine biology. This course will be held during reading week at the Bermuda Biological Station 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 ecology of marine organisms at Scamp Borough. In Bermuda, students will study three main habitat types: rocky shore, open ocean, and coral reef. In addition, students will work on individual field projects. There will be a final exam at the end of the spring term. Limited enrolment: 16
Exclusion: BIO301
Prerequisite or corequisite: BIOC29F and permission of instructor
Session: Winter Evening
D.D. Williams
* As this course is often oversubscribed, interested students must contact the instructor well in advance of the start of the fall term for details and must, at that time, be prepared to place a deposit towards the cost of airfare and accommodation. Places are allocated on a first-come, first-served basis.

BIOC18S Microbes in the Environment
Telephone ID: 01331853
This microbial ecology course will deal with the relationships of microorganisms: algae, bacteria, cyanobacteria, fungi, and viruses, to their environments. As customary in microbial ecology, the course will be both organism and habitat oriented.
Exclusion: BIO2721Y
Prerequisite: BIOA03
Session: Winter Day
R. E. Dugdale

BIOC20Y Cell Biology
Telephone ID: 01332063
This course will focus on both structural and functional aspects of cells. Topics to be covered include: the structure and function of cellular organelles, the cytoskeleton, organelle biogenesis, the cell cycle, membrane transport and cell-cell interactions. These topics will be discussed with regard to insights obtained from various approaches including microscopy and molecular biology.
Two hours of lectures per week.
Exclusion: BIO250Y
Prerequisite: One full-course equivalent from the Major topics pool (EX254Y, BIOH32Y, BIOB25F, BIOB25S, BIOB37Y, BIOB38S or BIOB39F. BIOB35Y may be taken concurrently.
Session: Winter Day
R. E. Dugdale, D. Riggs, H. Younas

BIOC23F Invertebrate Zoology
Telephone ID: 01332063
A general survey of the invertebrate animals (Protozoa, Invertebrata), excluding the Arthropods, with emphasis on those groups of numerical, evolutionary and medical importance. Lectures, discussion groups and laboratories will cover classification and study of diversity within groups, with emphasis on functional morphology and evolution. Living specimens and technical films will form an important part of laboratory work.
Two one-hour sessions and three hours
of laboratory work per week. Field trip.
Exclusion: ZOO335Y
Prerequisite: BIBA03
Session: Winter Day
D.D. Williams

BIOC357V Investigative Neurobiology
Telephone ID: 01335351
An examination in lectures and laboratory reports of current topics in investigative neurobiology. These topics will revolve around the neural, synaptic and molecular mechanisms underlying certain simple behaviours and their development especially in insects, crustaceans and molluscs.
One-two-hour lecture per week; laboratory work to be arranged with class.
Prerequisite: BIBA03
Session: Winter Day
C. K. Gurney

BIOC358S General Biology of Vertebrates
Telephone ID: 01335525
Course considers a variety of living vertebrates in a comparative fashion in relation to their life cycles, distribution, adaptations and diversity of form and function, environmental physiology, population biology, ecology.
Practical work includes selected films, visits to zoo. There will also be required essays and seminars.
Prerequisite: BIBA03
Session: Winter Day
A. H. Breathetley

BIOC35Y Introductory Biochemistry
Telephone ID: 01335565
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 effects of hormones on cellular metabolism; structure and function of enzymes; structure and biosynthesis of nucleic acids; biosynthesis of proteins; replication and integration of metabolic pathways will be discussed.
The teaching method will consist of one-two-hour lecture per week. The text used is Biochemistry by L. Stryer, W.J.
Freeman and Company.
Exclusion: BIBC355, BICH320Y, BICH321Y
Prerequisite: BIBA03, CHIM644Y
Session: Winter Evening
J. W. Gard

BIOC358S Laboratory in Biochemistry
Telephone ID: 01335563
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 three hours of laboratory work per week along with three lecture hours per week.
Exclusions: BICH356, BICH370Y, BICH371Y
Prerequisite: BIBA03, CHIM644Y
Corequisite: BIOC35Y
Session: Winter Day
C. Fei

BIOC3F Plant Community Ecology
Telephone ID: 01334753
An examination of both the theory and methodology of vegetation analysis, including: description, quantitative analysis and classification of plant communities; the dynamics of vegetation, including succession theory and the response of vegetation to the climate-change, wildfire, pathogens and other environmental factors.
One-two-hour lecture and one-three-hour laboratory per week.
Exclusion: BOTCH4H
Prerequisite: BIBA03
Session: Winter Day
E.A.

BIOC4FF Evolutionary Biology
Telephone ID: 01350033
An examination of the fundamental principles of evolution. Topics include: the history of evolutionary theory; mechanisms of evolutionary change; natural selection; genetic drift; mutation and recombination; the maintenance of genetic variation; speciation and adaptive radiation rates of evolution; phylogenetics and systematics; molecular evolution; the ecological basis of evolutionary change and coevolution. The course will not consider popular genetics in detail and will focus on conceptual, rather than mathematical, issues.
Two-one-hour lectures per week and one-two-hour tutorial every second week.
Exclusion: B1006
Prerequisite: BIBA03
Session: Winter Day
J. M. Eade

BIOC39S Conservation Biology
Telephone ID: 01335555
A study of scientific principles of biological conservation.
Conservation biology is a pure and applied science that addresses the disturbing reduction in biological diversity of the planet. Lecture topics will include biological principles of biological conservation; the impact of disease, inbreeding, hybridization, and natural catastrophes on small or fragmented populations; problems and progress on restoration and reestablishment of natural populations; captive breeding programmes; waste management; dynamic interactions between global climate change and biological conservation.
One-two-hour lecture per week and one-two-hour tutorial bimonthly.
Prerequisite: BI0A012
Session: Winter Day
K. Martin

BIOC39F Environmental Toxicology
Telephone ID: 01336833
An examination of the effects of pollutants on ecosystems. Pollutants are substances that occur in the environment at least in part as a result of anthropogenic activity, and have deleterious effects on living organisms. This course will deal with the effects of pollutants on the structure (e.g. species composition, diversity, food web composition), and function (e.g. nutrient cycling, primary production, productivity) of aquatic and terrestrial ecosystems.
Prerequisite: BIBA05 or permission of instructor
Session: Winter Day
C. Rabinowitch

BIOC39F Advanced Field Courses in Ecology
Telephone ID: 01350923
Inter-university selections 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 two weeks' duration at field sites from late April through mid September, are announced each January, and must require a major paper or project report to be submitted within six weeks of course completion. A fee for £375 and board is charged over and above tuition. Lists of

BIOC401Y Supervised Study in Biology
An independent study course designed to permit intensive examination of the literature of a selected topic and/or laboratory or field project in biology. Supervision of the work is arranged by mutual agreement between student and instructor. Will require a seminar presented by the student during a Biology Research Day in the spring.
Exclusions: BOT4040Y, ZOO498Y
Prerequisite: Satisfactory completion of 16 ECTS full-course equivalents, of which at least four must be Biological Science B- or C-level courses.
Session: Winter Members of Faculty

BIOC402Y Directed Research in Biology
Similar to BIOC40Y (BIOC39Y) but not to be taken with the same faculty member.
Prerequisite: Completion of fifteen full-course equivalents, of which at least four must be Biological Science B- or C-level courses.
Will require a seminar presented by the student at a Biology Research Day in the spring.
Exclusions: BOT4040Y, ZOO498Y
Session: Winter Members of Faculty

BIOC405S Advanced Genetics
Telephone ID: 01340553
This course deals in depth with three or four topics in the area of genetics. In addition to lectures by the instructor, students will present oral reports based on readings of journal articles and lead a discussion of their reports. The topics covered will be different each time the course is given. Offered in alternate years. Limited enrollment: 10.
Prerequisite: BIBA05
Session: Winter Day
M. J. Flinn
Biological Sciences

BIOO121H Physiology and Biochemistry of Plant Growth and Development
Telephone ID #: 01341243
A lecture and seminar course in plant growth and development. Emphasis will be placed on the mechanisms controlling growth and development.
The plant growth hormones and their mechanisms of action, germination, dormancy, senescence, tropic responses, growth mechanisms, co-relation effects, flowering, fruiting. Biological clock mechanisms. It is hoped to provide an in-depth understanding and to review critically the processes of growth and development in plants. It should acquaint the student with current literature on the subject, via library research, providing a sound basis for possible future research in this field.
Lectures and seminars. Limited enrolment: 12.
Prerequisite: BIOB06
Corequisites: BIOC35 recommended Session: Winter Day
D. D. Williams

BIOO121F Plant Molecular Biology
Telephone ID #: 01341233
An upper level course which elaborates on current genetic, molecular and biochemical aspects of plant cell metabolism.
Plants utilize a number of biochemical pathways which are not found in animals or to carry out their normal life-cycles and to respond to changes in their environment. With the advent of plant transformation systems and recombinant DNA techniques these unique developmental changes and responses to environmental stimuli are being understood and applied to the molecular level. Topics to be covered will include: the genetics of Agrobacterium and plant transformation, generation of somatic hybrids, targeting of proteins to the chloroplast, interactions between nuclear and chloroplast genomes, molecular biology of pollen development and floral evolution, embryogenesis and development of monocot and dicot seeds, and the factors controlling gene expression during the course of development and in response to environmental cues, plant genetic engineering and agricultural applications.
Exclusion: MG1B401
Prerequisite: BIOB06
Session: Winter Day
C. D. Riggs

BIOO121S Molecular and Classical Cytogenetics
Telephone ID #: 01341453
The course will begin with an introduction to stream hydrology and sediments, and the adaptations of plants and animals to life in a dynamic habitat. Later topics will cover micro- and macro-distribution of stream fauna and the problems of quantitative sampling; biotic interactions; community structure and diversity; colonization patterns following disturbance; energy transformation; estimates of production; and man's effects on rivers.
Two one-hour lectures and three hours of laboratory work per week. Field trips. Offered in alternate years. Limited enrolment 15.
Exclusion: ZOO1650Y

Biological Sciences

BIOO121S Global Metabolism
Telephone ID #: 01341253
A study of global biogeochemical cycles, their integration and regulation.
The perturbation of these cycles on a short time scale by human activities and on a geological time scale by extra-planetary effects such as changes in solar output or meteoric impact. Geochemical feedback mechanisms leading to positive feedback and the role of biogeochemical processes in these mechanisms. Interaction among the components of the system. Ecological and evolutionary implications. The role of molecular regulation and global biodiversity.
Prerequisite: GLG1A01, BIOB12 or BIOB14, BIOC35 (BIOC35). Permission of instructor.
Session: Winter Day
G. R. Williams

BIOO121S Physiology of Algae
Telephone ID #: 01341253
Algae are a heterogeneous group, ranging in size from about one micrometer to several meters, in morphology from simple single cells to elaborate seaweeds, and in physiology, from exclusively photosynthetic organisms to forms resembling bacteria and animals in their nutrition. The crucial role of algae as primary producers in aquatic environments has motivated intensive investigations of their physiology.
Course content: Genetics of growth (chick, culture, chromosome and transformation); effects of environmental variables on photosynthesis, respiration, population; and growth, morphology, osmoregulation; survival and growth in extreme environments.
One two-hour lecture and three hours of laboratory per week. The laboratory work involves applying research techniques to experiments. Limited enrolment: 25. Offered in alternate years. Exclusion: BIO3341Y
Prerequisites: Eight full-course equivalents in Biology Session: Winter Day
C. Kariokwe

BIOO121S Evolutionary Genetics
Telephone ID #: 01341653
Evolution, at its most fundamental level, is the progressive change in the genetic composition of a population. This course examines, in detail, the genetic mechanisms underlying evolutionary change. Primary topics include: 1) basic population genetics - the study of Mendel's laws as applied to finite populations of organisms; 2) quantitative genetics - the extension of population genetic models to polygenic traits; and 3) molecular population genetics - the examination of evolutionary change at the molecular level. The course builds on concepts introduced in HEC1P Evolutionary Biology, although the material is more advanced and considerably more quantitative. There will be one two-hour lecture per week and one two-hour practical per week. During tutorials, students will work on problem sets or computer exercises designed to provide practical experience in population genetics analysis.
Prerequisites: BIOA03 and BIOC60
Corequisite: BIOB05 or permission of instructor
Session: Winter Day
I. E. Endo
Chemistry

Discipline Representative: A. Walker (287-7225)
Coordinator of First Year Studies in Chemistry: A. Vetter (287-7224)

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. The Chemistry Handbook outlines the teaching and research activities of the Chemistry faculty and offers a wide range of informal advice and undergraduate activities. A sound knowledge of the fundamental concepts of chemistry is useful to any student in the physical or life sciences.

The basic course in chemistry is CHM02Y, which must be taken by those who wish to take further chemistry courses or who require chemistry for another science. Completion of CHM02Y permits students to take any of the II-level courses in Chemistry. These are divided according to the following subdisciplines: Inorganic Chemistry, Analytical Chemistry, Physical Chemistry and Organic Chemistry. Thereafter, one can proceed to advanced-level courses at the C and D level.

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

To Enter Complete St. George Series IV: Scourbeath Courses
420 CHM02Y; CHM02Y;
430 CHM02Y; CHM02Y;
440 (except 447) CHM02Y; CHM04Y;

To enter the quantitative description of gases, solids and solutions develops ideas of bonding and structure in chemical compounds based on Lewis structures, VSEPR and simple molecular orbital theory. Reactions and equilibria in chemical systems are explored through their thermodynamic properties and chemical kinetics. Time permitting, descriptive topics such as introductory organic chemistry are used to round out the course.

While courses in Chemistry do not appear among the prerequisites or corequisites of most courses in Chemistry, students are urged to take PHY101Y early in their programs. Thus, the suggested first-year programme in Chemistry includes CHM02Y, MATH20Y and PHY101Y.

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

Specialist Programme in Chemical Physics
The Specialist Programme in Chemical Physics is no longer offered. Students currently registered will be allowed to complete it.

CHM02Y General Chemistry
Telephone ID #: 02812023
Nuclear chemistry, atomic and molecular structure, ion solids, bonding in organic compounds, states of matter and equations of state, thermo-chemistry, chemical equilibrium in the gas phase and 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 chemical systems are explored through their thermodynamic properties and chemical kinetics. Time permitting, descriptive topics such as introductory organic chemistry are used to round out the course. Two lectures per week and one four-hour laboratory every second week. Exclusions: CHM05Y, 136, 150
Prerequisite: OAC Chemistry or Grade 12 Chemistry and permission of instructor; OAC Calculus. Corequisite: None. Is strongly recommended and is required for some higher level chemistry courses. Session: Winter Day

CHM01Y Analytical Chemistry
Telephone ID #: 02811163
An introduction of the principles and methods of chemical analysis and to provide practical experience in the techniques employed in a chemistry laboratory.
The course consists of two main divisions: classical wet quantitative analysis and modern instrumental analysis. The classical methods employed include gravimetric and volumetric analyses. The instrumental section will introduce the techniques of various spectrophotometric and electrochemical methods of analysis as well as chromatographic and other separation techniques. Three hour lectures and six hours of laboratory per week. Exclusion: CHM00Y, CHM219, 259
Prerequisite: CHM02Y
Other recommended courses: CHM03Y
Session: Winter Day

CHM03Y Introductory Physical Chemistry
Telephone ID #: 02812203
Introduction to physical chemistry, including thermodynamics, elementary statistical mechanics and chemical kinetics. The course starts with the application of the basic laws of thermodynamics to a variety of chemical problems. Topics covered include spontaneous processes, chemical and phase equilibria, properties of solutions and electrochemistry. Further course topics are: the kinetic theory of gases, statistical mechanics of simple model systems, elementary chemical kinetics and theories of chemical bonding. Exclusion: CHM06Y, CHM122
Prerequisite: CHM02Y, MATH20Y, PHY04Y
Corequisite: MATH141P and MATH245 are strongly recommended but not required. Further note prerequisites for CHM225 Session: Winter Day

CHM04Y Inorganic Chemistry 1
Telephone ID #: 02833653
A description of the bonding of atoms, molecules and ionic lattices introduced in CHM02Y are further developed and applied to the rich variety of structures of inorganic solids. The same ideas provide a framework to account for the reactions of these substances - namely acid-base and redox reactions. These concepts are used to rationalize the descriptive chemistry of the elements, particularly those of the 2- and p-blocks. The structure and properties of the d-metal complexes are introduced as a special case of acid-base interactions. Three lectures per week. Exclusion: CHM00Y, CHM239, 339
Prerequisite: CHM02Y
Session: Winter Day

CHM04Y Organic Chemistry 1
Telephone ID #: 02844643
The chemistry of the principal functional groups encountered in aliphatic and
38 Chemistry

aromatic compounds, interpreted in terms of reactivity, stereochemistry and reaction mechanisms. An introduction to organic 
spectroscopy will also be given.

The fundamentals of organic chemistry,  
including aromatic and carboxylic chemistry and 
and an introduction to the chemistry of 
biologically important molecules such as 
proteins and carbohydrates. Two lectures 
per week and a four-hour laboratory every 
second week.
Exclusion: CHMB01Y, CHM260, 268, 269
Prerequisite: CHIM20Y 
Session: Winter Day

CHMC21F Advanced Physical Chemistry
Telephone ID #: 02832233
This course is a continuation of CHMC22F. Further topics in physical chemistry are 
treated, including molecular spectroscopy, 
topics in statistical mechanics and advanced 
topics in kinetics. The spectroscopy 
portion will primarily be concerned with 
the use and interpretation of various 
techniques (IR, UV/VIS, NMR, etc.). Both 
equilibrium and non-equilibrium statistical 
mechanics will be discussed, through 
calculation of partition functions for model 
systems (equilibrium) and treatment of 
diffusion and other transport properties, 
as well as the effects of noise (non- 
equilibrium). The advanced kinetics portion 
will cover oscillatory reactions, with 
examples drawn from biochemistry, 
biophysics and chemistry. The approach of 
this course is more theoretical than that of 
CHMC25S.
Exclusion: CHMC22Y
Prerequisite: CHIM24Y, CHM211F, 
MAT342Y
Session: Winter Day

CHMC25S Environmental Physical Chemistry
Telephone ID #: 02832553
This course treats physical chemical topics of 
environmental and ecological importance, including 
colloidal and surface chemistry, atmospheric 
chemistry and large scale physical and 
chemical transport processes. Colloidal 
chemistry deals with thermodynamic 
stability and phase equilibria in colloids. 
Atmospheric chemistry treats the chemical 
kinetics and photochemistry of the 
atmosphere, especially as these relate to 
pollution and ozone depletion mechanisms. 
Transport properties such as the 
permeation and diffusion are treated in an 
environmental setting. This course has a 
more applied approach than that of 
CHMC22F.
Prerequisite: CHIM22Y
Session: Winter Day

CHMC26F Experimental Physical Chemistry
Telephone ID #: 02832233
This course provides an introduction to modern 
techniques in physical chemistry, 
through experimentation and computer 
simulation. Computer modelling 
experiments will examine time-dependent 
phenomena such as complex and oscillatory 
chemical reactions, nonequilibrium 
problems and simple bifurcation theory, as 
well as simple trajectory studies of reaction 
kinetcs and electronic structure 
calculations. "Real" experiments on 
kinetcs and thermodynamics will illustrate 
the topics covered in the lecture courses 
(CHMC22F, C26F and C26S), with some 
emphasis on environmental systems.
Exclusion: CHMC25Y
Prerequisite: CHM260, 268, 369
Session: Winter Day

CHMC26S Inorganic Chemistry II
Telephone ID #: 02833353
The objective is to rationalize the structure, 
bonding, spectra and reactions of transition 
metal complexes, and to introduce to this 
student in CHM205Y/CHM216Y and to the 
analysis of the electronic spectra of complex 
ions and the ligands and to the energy 
metallurgy of the metal. The effect of 
bonding on the electronic structure, the 
structure and function of enzyme, structure 
and reactivity of nucleic acids, biosynthesis 
of proteins, regulation and integration of 
metabolic pathways will be discussed. Two 
hour lecture per week. The text used is: 
Inorganic Chemistry by L. Snyder, W.H. Freeman 
Exclusion: CHMC25Y, BHC320, 321
Prerequisite: CHMC20Y, CHM216Y
Beginning in 1992-93: BA310Y, 
BA315Y
Session: Winter Day

BIOC36H Laboratory in Biochemistry
Telephone ID #: 01333643
An introductory laboratory course designed 
to introduce students to basic 
experimental techniques used in 
biological research. The course will 
introduce students to practical and theoretical 
aspects of techniques used in molecular 
biology, including: spectroscopy, 
cell culture, diffusion, electrophoresis, 
protein fractionation, etc.
Three hours of laboratory per week.
Exclusions: CHMC20H, BHC310, 311
Prerequisite: BHC260Y, CHM216Y/ 
CHM225Y
Beginning in 1992-93: BHC315Y
Session: Winter Day

CHMC27F Environmental Inorganic Chemistry
Telephone ID #: 02833533
This course studies the nature, reactions and 
fates of chemicals in the water, soil and 
atmosphere. Topics include the aqueous 
chemistry of important elements, 
redox equilibria, speciation, 
formation, the role of essential and trace 
elements in biological systems, catalysis by 
macroorganisms, water pollution, 
treatment and analysis, soil chemistry and 
acid rain. The emphasis of this course is to 
introduce the student to environmental 
chemistry in a rationalized, total 
context. Chemical transport and other 
physical aspects are covered in CHMC25S.
Prerequisite: CHIM21Y, CHIM31Y 
or by permission of instructor.
Session: Winter Day

BIOC35V Introductory Biochemistry
Telephone ID #: 01353565
An introductory course for students 
interested in the bio-medical sciences, 
designed to introduce students to 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; biosynthesis 
of proteins. Regulation and integration of 
metabolic pathways will be discussed. Two 
hour lecture per week. The text used is: 
Biochemistry by L. Snyder, W.H. Freeman 
Exclusion: CHMC25Y, BHC320, 321
Prerequisite: BHC260Y, CHIM216Y
Beginning in 1992-93: BA310Y, 
BA315Y
Session: Winter Day

BIOC34Y Organic Chemistry II
Telephone ID #: 02834467
An in-depth treatment of organic 
reactions and synthesis, stereochemistry 
and conformational analysis, spectroscopy of 
organic molecules and reaction 
mechanisms, and an introduction to 
organic synthesis, photochemistry, 
free radicals, polymers, organometallic 
compounds, and the chemistry of naturally 
occurring molecules such as terpenes, 
steroids and carbohydrates. This course 
provides further experience in 
organocatalysis to students who have 
completed one course in the subject. The 
labatory experiments are designed to complement 
the topics covered in lectures, with an emphasis 
on more advanced techniques, and the use of 
modern physical techniques and newer 
synthetic methods.
Two lectures and one three 
hour laboratory every week.
Exclusion: CHMC25Y, CHM249, 368, 369
Prerequisite: CHIM24Y 
Session: Winter Day

CHMC30S Special Topics in Inorganic 
Chemistry
Telephone ID #: 02833533
This course provides an introduction 
to current research areas and their 
thoretical and practical importance in 
inorganic chemistry. The emphasis will be 
on introducing the student to a good background 
in organic and physical chemistry is 
useful. Topics will include: 
Exclusion: CHMC346S
Prerequisite: CHMC25S 
Session: Winter Day

CHMC345 Special Topics in Chemistry
Telephone ID #: 02834545
A selection of topics in organic 
chemistry and catalysis, Recent
Classical Studies

Discipline Representative: I.R. McDonald

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

1. CLA001Y Classical Civilization
2. CLA029Y Greek and Roman History
3. Two full-course equivalents from:
   - GREEK10Y, GREEK104Y, GREEK201Y, GREEK211Y, GREEK212Y
   - GREEK213Y, GREEK214Y
4. One full-course equivalent from:
   - PHIL100Y, PHIL200Y, PHIL210Y
5. One half course from:
   - CLA006Y, FEM096Y, FEM106Y
6. One half course from:
   - CLA017Y, CLA026Y, CLA027Y

Minor Program in Modern Greek

Supervisor: G. Kotsiopoulou

The course in Modern Greek will consist of four full-course equivalents in the fields of modern Greek literature, culture, and civilization, with special emphasis on the development of modern Greek language and literature.

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

1. CLA001Y Classical Civilization
2. CLA029Y Greek and Roman History
3. Two full-course equivalents from:
   - GREEK10Y, GREEK104Y, GREEK201Y, GREEK211Y
4. One full-course equivalent from:
   - PHIL100Y, PHIL200Y, PHIL210Y

Minor Program in Ancient Civilization

Supervisor: J. R. McDonald

The Minor Program in Classical Studies offers a limited but coherent curriculum in Greek and Roman civilization and literature for students interested in studying the Greek and Roman worlds while pursuing a more focused program of study in a number of related disciplines. Students must complete four full-course equivalents, to be selected as follows:

1. CLA001Y Classical Civilization
2. CLA029Y Greek and Roman History
3. Two full-course equivalents from:
   - GREEK10Y, GREEK104Y, GREEK201Y
4. One full-course equivalent from:
   - PHIL100Y, PHIL200Y, PHIL210Y

Course description:

Discipline Representative: I.R. McDonald

The Minor Program in Classical Studies offers a limited but coherent curriculum in Classical studies for students interested in studying the Greek and Roman worlds while pursuing a more focused program of study in a number of related disciplines. Students must complete four full-course equivalents, to be selected as follows:

1. CLA001Y Classical Civilization
2. CLA029Y Greek and Roman History
3. Two full-course equivalents from:
   - GREEK10Y, GREEK104Y, GREEK201Y
4. One full-course equivalent from:
   - PHIL100Y, PHIL200Y, PHIL210Y

Minor Program in Modern Greek

Supervisor: G. Kotsiopoulou

The Minor Program in Modern Greek introduces students to the broad range of modern Greek culture in its historical context (literature, film, theatre, music) with special attention to the study of the Greek language background of the modern Greek civilization.

For the Minor Program in Modern Greek, students must complete four full-course equivalents, to be selected as follows:

1. CLA001Y Classical Civilization
2. CLA029Y Greek and Roman History
3. Two full-course equivalents from:
   - GREEK10Y, GREEK104Y, GREEK201Y
4. One full-course equivalent from:
   - PHIL100Y, PHIL200Y, PHIL210Y

Minor Program in Ancient Civilization

Supervisor: J. R. McDonald

The Minor Program in Classical Studies offers a limited but coherent curriculum in Greek and Roman civilization and literature for students interested in studying the Greek and Roman worlds while pursuing a more focused program of study in a number of related disciplines. Students must complete four full-course equivalents, to be selected as follows:

1. CLA001Y Classical Civilization
2. CLA029Y Greek and Roman History
3. Two full-course equivalents from:
   - GREEK10Y, GREEK104Y, GREEK201Y
4. One full-course equivalent from:
   - PHIL100Y, PHIL200Y, PHIL210Y
and will serve as an introduction to other courses in classics.

Exclusion: HUMA11, CLA205
Session: Winter Day
TR
Offered 1993/94 and 1994/95

CLA1815 Greek and Latin for Scientists
Telephone ID: 03023033
An examination of the role of Greek and Latin in the formulation of technical terms in the sciences.

The course aims to provide the student who has no previous knowledge of classical Greek or Latin with the ability to determine the meaning of scientific words by analysing their structure, to increase his/her range and comprehension of technical vocabulary, to acquaint himself/her with the principles of scientific word formation, and to help him/her to develop sound non-literalual practices. Topics will include: characteristics, rules, and codes of scientific nomenclature; Latin and Greek roots, affixes, combining forms, and inflectional patterns; translation and pronunciation; malformations,Loanwords, and hybrids. Particular emphasis will be placed on the biological and medical sciences.

Exclusion: CLA1813
Session: Winter Day
I. R. McDowell
Not offered 1993/94
Offered 1994/95

CLA223F The Age of Nero
Telephone ID: 03023233

Not offered 1993/94

The course provides an introduction to Imperial Rome, a controversial Emperor, and the striking cultural milieu over which he claimed to preside. It asks what ideas are expressed in Neroian art; how far the Emperor controlled his expression; and how far the culture (or counterculture) of the court shaped, or was shaped, by the forces of a largely broken Empire. A broad format will be adopted, with frequent use of slides and some opportunity for discussion.

Exclusion: HUMB24, CLA351
Session: Winter Day
I. R. McDowell
Not offered 1993/94
Offered 1994/95

CLA231F Selected Topics in Classical Literature
Telephone ID: 03030113
A detailed study of an author or a genre to Classical Literature in translation.

Exclusion: CLA201 or one full-course equivalent in English or another literature.
Session: Winter Day
TR
Offered 1993/94
Offered 1994/95

CLA232S Selected Topics in Classical Civilization
Telephone ID: 03030213
For 1992/93 the course will study education in the ancient world in the various periods from 5th century B.C. Greece to imperial Rome. Particular emphasis will be placed on the curriculum, types of schools, and educational facilities, with special focus on the goals and ideals of education. Text in Latin will be H.L. Manuw, A History of Education in Antiquity. We shall also study (in translation) a number of patristic dealing with education from such authors as Plato, Isocrates, Cicero, and Quintilian.

Prerequisite: One full-course equivalent in CLA or GRH or permission of the instructor.
Session: Winter Day
TR
Offered 1993/94
Not offered 1994/95

CLA244Y Greek and Roman Tragedy
Telephone ID: 03030413
An exploration of the nature and intent of classical tragic drama, its conventions, historical origins, and cultural context.

The course examines students to the dramas of Aeschylus, Sophocles, Euripides, and Seneca. Its objective is to foster an appreciation of the originality and power of ancient tragedy and its influence on the imaginative and literary traditions of the western world. The greater part of the course will focus on the individual plays of Aeschylus, Sophocles, and Euripides. Insight into ancient perspectives on the nature of tragedy will be sought through reading and discussion of Aristotle’s Poetics, and Aristotle’s Poetics. Selections from Seneca’s Roman tragedies will then be studied.

No knowledge of Greek or Latin or of the classical world is assumed.

Exclusions: DRAB14, (CLA102; CLA105; CLA100)

Offered 1994/95

CLA246F Women in Ancient Greece
Telephone ID: 03030613
A study of women in Greece from the time of Homer to the fourth century B.C.

The course will consider the role of women and the attitude of society toward them in this period, and will study what we know of women in ancient Greek society, in order to discover their position in society, their rights, their functions, and attitudes towards them. We shall consider women in Homer’s epic, tragedy and comedy. Women in Athens will be contrasted with women in Sparta. Non-citizen women will be compared to citizen women. Reading in translation will include selections from Homer, Hesiod, the lyric poets, the historians, philosophers and dramatists. One two-hour meeting each week; lecture followed by discussion.

Exclusion: HUMB41, HUMC41
Prerequisite: W/TAU1 or one course in CLA
Session: Winter Day
E. Jern
Not offered 1993/94 and 1994/95

CLA241Y Greek and Roman Religion
Telephone ID: 03032113
A study of religion in the Greek and Roman world.

This course will explore the origins of Greek and Roman religion, the importance of Homer and Herodotus, the role of the gods, the influence of myth and archetypal figures, and the transmission of religious beliefs and practices.

Exclusion: CLA211
Prerequisite: CLA101 or CLA102 (HUMA11)
Session: Winter Day
J. R. Cowan
Not offered 1993/94
Offered 1994/95

Greek and Roman History

The course will introduce students to the origins and development of Roman civilization from its early days to the end of the Roman Empire. It will cover the major events in Roman history and provide an understanding of the political, social, and economic factors that shaped Roman society. The course will also examine the role of Rome in the formation of modern Western civilization.

Exclusion: GRIH01Y, GRIH03Y, CLA231, CLA351
Session: Winter Evening
J. R. Cowan
Not offered 1993/94
Offered 1994/95

GRIH01Y The Roman World
Telephone ID: 07120413

An introduction to the Roman World.

The course will study the origins and rise of Rome in its natural and social contexts. Special attention will be given to the Roman army and the social and political system which supported it. The economic basis of the Roman state and the social and economic impacts of Roman expansion, especially as evidenced in slavery, agricultural development and urban life. It will be the objective of this course (a) to broaden the student's awareness of the major players of this history and in this way challenge the student to approach Roman history from a number of perspectives in order to understand the complexities of the Roman world. (b) to suggest how the distinctive experience of Rome is foundational to our understanding of the later history of the Western World.

Exclusion: GRIH02Y, GRIH03Y, CLA231, CLA351
Session: Winter Evening
J. R. Cowan
Not offered 1993/94
Offered 1994/95
GREEK35V Political and Social Life in Classical Athens (500-100 B.C.)
Telephone ID #: 0712536
A study of the political, economic, social, and cultural life of Classical Athens, including some consideration of the other leading states of Greece.

The course provides no advanced study of issues and problems considered in GREEK35Y. The period will be studied, as far as possible, from the Greek authors (in translation).

The choice of topics to be studied will depend to some extent on the interests and qualifications of the students.
Prerequisite: GREEK101 or any related GRHI.
Session: Winter Day
A. Reddington
Not offered 1993/94 or 1994/95
GREEK35F Introduction to Greek Authors
Telephone ID #: 0722333
A rapid reading of simple Greek texts combined with a consolidation of grammar.
This course is intended to help students review classical Greek grammar in preparation for reading texts.
Exclusion: GREEK101, GREEK215
Prerequisite: GREEK101 or OAC Greek or Grade 13 Greek.
Session: Winter Day
W. Hellman
Not offered 1993/94
Offered 1994/95
GREEK314V Intermediate Modern Greek
Telephone ID #: 0721233
Study of the Modern Greek language, primarily in its written form, with the goal of preparing the student for the reading of Modern Greek literature.
Prerequisite: GREEK405 unless the student is a native speaker of the language.
Exclusion: GREEK245
Session: Winter Day
G. Kirtzoepedes
Offered 1993/94 and 1994/95
GREEK11S Plato: Apology
Telephone ID #: 0721115
A study of the Apology, Plato's version of Socrates' defense in court against the charges of religious non-conformity and of corrupting the young.
The text will be read in Greek. The political, legal, and social situation in Athens at the time of the trial will be considered.
Exclusion: GREEK301, GREEK310
Prerequisite: GREEK102 (GREEK101)
Session: Winter Day
E. Evans
Not offered 1993/94
GREEK23F Modern Greek Cinema and Theater
Telephone ID #: 0721333
An examination of the development of modern Greek drama and film through World War II to the present.
Students seeking certification in Classical Studies with Modern Greek will be expected to do their written work in Greek.
Session: Winter Day
S. Miler
Not offered 1993/94
Offered 1994/95
GREEK23F Modern Greek Cinema and Theater
Telephone ID #: 0723233
An examination of the development of Greek drama and film through World War II to the present.
Students seeking certification in Classical Studies with Modern Greek will be expected to do their written work in Greek.
Session: Winter Day
S. Miler
Not offered 1993/94
Offered 1994/95
GREEK292 Classical Themes in Modern Greek Literature
Telephone ID #: 0723453
A broadly representative survey of the way in which for mythology, history, and people of classical Greece are reflected in the literature of modern Greece.
Students seeking certification in Classical Studies with Modern Greek will be expected to do their written work in Greek.
The course is open to students with no previous knowledge of the Greek language, who will do their written work in English.
Prerequisite: GREEK101 OR CLA301Y or any related course in GREEK, CLA, or GRHI.
Session: Winter Day
G. Kirtzoepedes
Not offered 1993/94
Offered 1994/95
GREEK24Y Late Greek Introductory Latin
Telephone ID #: 0712453
An introduction to the essentials of the Latin language.
The course aims to bring the student with no previous knowledge of Latin to a sound basic reading knowledge of prose and poetry. Some time will be given to an exploration of the language in its cultural and historical context, and of the impact of Latin on English.
Classes are designed to introduce fundamentals of vocabulary, grammar, and syntax, but this routine will be varied occasionally to allow for lectures, discussions, and slides to increase awareness of the cultural milieu. Although the emphasis will be on language, selected texts will be read to introduce the student to Latin literature.
Exclusion: OAC Latin or Grade 13 Latin, except by permission of the Division.
Session: Winter Day
J. R. McDonald
Not offered 1993/94
Offered 1994/95
LATI204F Latin 1
Telephone ID #: 0728535
Exclusion: LATI201, LATI202
Session: Winter Day
J. R. McDonald
Not offered 1993/94
Offered 1994/95
LATI204Y Supervised Reading
Students who wish to take Latin Supervised Reading courses should enroll in any of the above courses (F1/FY as appropriate). They should then contact the co-ordinator and discuss with him what they want to read and with whom. The student will be expected to read much of the material on his or her own, and to meet with the tutor once a week, normally for a two-hour period; exact arrangements will depend on the nature of the text and level of ability of the student. The purpose of these sessions is to sort out any problems of comprehension and to discuss the literary qualities and cultural context of the work being read.
Exclusion: LATI304, LATI305, LATI402 (LAT11, LAT12), LAT124
Prerequisite: LAT111 (LAT101)
Session: Winter Day
Co-ordinator: J. R. McDonald
Offered 1993/94 and 1994/95

Courses Not Offered in 1992/93

Classics

CLAR111F The Classical Element in English
Exclusion: CLAB10
Offered 1993/94
Not offered 1994/95
CLAR333F The Age of Homer
Exclusion: (HUM3025), CLA215, CLA225
Offered 1993/94
Not offered 1994/95
CLAC43Y Greek and Roman Epic
Exclusion: (CLAR301), CLA100, CLA215, CLA225
Prerequisite: CLAC301Y or any one course in English or another literature
Offered 1993/94
Not offered 1994/95
Cognitive Science

Supervisor: Ron Smyth (287-7171)

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

Researchers in philosophy and psychology, linguistics, computer science and anthropology all use different methods to investigate these questions and have all provided part of the answers. The Cognitive Science Programmes (Specialist and Major) include courses from all these disciplines - from the humanities and the sciences at both the theoretical and the practical level. The Faculty of Education, University of Toronto, offers a four-year programme for the Specialist Programme in Cognitive Science, to have an equivalent preparation for application to the Primary Junior Division of the Bachelor of Education Programme. Applicants should have an overall 70% average and appropriate experiences.

The Specialist Programme requires thirteen courses: the Major Programme requires eight courses.

Note: Students intending to take COG201Y in 1992/93 should consult the Programme Supervisor for advice on alternative courses.

Specialist Programme in Cognitive Science Supervisor: Ron Smyth (287-7171)

* Students should check prerequisites/corequisites/exclusions for these courses.

Required Courses

Seven full-course equivalents:

PSY A01Y Introduction to Psychology

LING A01Y General Linguistics

PHL A01Y Fundamental Questions of Philosophy

CSC A09S Computer Basics or

CSC A24S/8S Introduction to Computing

COG B01Y* Elements of Cognitive Science

PSY B07Y/S Data Analysis in Psychology

PSY D17Y/S Memory and Cognition

PHL D20Y/S Belief, Knowledge and Truth

PHL D18Y/S Theories of Mind

TLL D25Y/S Psycholinguistics

Optional Courses

Psychology

Two full-course equivalents chosen from the following, to include either PSY A01Y or PSY B01Y:

PSY A01Y Introduction to Social Psychology

PSY B01Y* Introduction to Developmental Psychology

PSY B30Y/S Sensation and Perception

PSY B40Y/S Perception and Cognition

PSY B56Y/S Human Brain and Behaviour

PSY C08Y/S Experimental Design in Psychology

PSY C16S Developmental Psychology Laboratory

PSY C34Y/S Psychometric: Methods Laboratory

PSY C35Y/S Cognition and Representation

PSY C35Y/S History of Psychology

PSY C35Y/S General Linguistics

PSY D20Y/S Current Topics in Memory and Cognition

COG C91Y/S Supervised Study in Cognitive Science

Linguistics

Two full-course equivalents chosen from the following:

LING D01Y Practical Language Analysis

LING D09Y/S Phonetics: The Study of Speech Sounds

LING C02Y/S Phonology

LING C11Y/S Syntax

LING C12Y/S Semantics: The Study of Meaning

LING C14Y/S Pragmatics: The Study of Language Use

LING C25Y/S Second Language Learning

LING C26Y/S Second Language Teaching

PLC D24Y/S Developmental Psycholinguistics

PLD D55Y/S Disorders of Speech and Language

Required for Courses

Seven full-course equivalents:

PSY A01Y Introduction to Psychology

LING A01Y General Linguistics

PHL A01Y Fundamental Questions of Philosophy

CSC A09S Computer Basics or

CSC A24S/8S Introduction to Computing

COG B01Y* Elements of Cognitive Science

PSY B07Y/S Data Analysis in Psychology

PSY D17Y/S Memory and Cognition

PHL D20Y/S Belief, Knowledge and Truth

PHL D18Y/S Theories of Mind

TLL D25Y/S Psycholinguistics

Optional Courses

Psychology

Two full-course equivalents chosen from the following, to include either PSY A01Y or PSY B01Y:

PSY A01Y Introduction to Social Psychology

PSY B01Y* Introduction to Developmental Psychology

PSY B30Y/S Sensation and Perception

PSY B40Y/S Perception and Cognition

PSY B56Y/S Human Brain and Behaviour

PSY C08Y/S Experimental Design in Psychology

PSY C16S Developmental Psychology Laboratory

PSY C34Y/S Psychometric: Methods Laboratory

PSY C35Y/S Cognition and Representation

PSY C35Y/S History of Psychology

PSY C35Y/S General Linguistics

PSY D20Y/S Current Topics in Memory and Cognition

COG C91Y/S Supervised Study in Cognitive Science

Linguistics

Two full-course equivalents chosen from the following:

LING D01Y Practical Language Analysis

LING D09Y/S Phonetics: The Study of Speech Sounds

LING C02Y/S Phonology

LING C11Y/S Syntax

LING C12Y/S Semantics: The Study of Meaning

LING C14Y/S Pragmatics: The Study of Language Use

LING C25Y/S Second Language Learning

LING C26Y/S Second Language Teaching

PLC D24Y/S Developmental Psycholinguistics

PLD D55Y/S Disorders of Speech and Language

Major Programme in Cognitive Science

Supervisor: Ron Smyth (287-7171)

* Students should check prerequisites/corequisites/exclusions for these courses.

Required Courses

Four full-course equivalents:

PSY A01Y Introduction to Psychology

LING A01Y General Linguistics

PHL A01Y Fundamental Questions of Philosophy

Students should check prerequisites/corequisites/exclusions for these courses.

COG 092Y/S Supervised Study in Cognitive Science

Philosophy and Theoretical Psychology

One full-course equivalent chosen from the following:

COG 010Y/S Supervised Study in Cognitive Science

PHL 015Y/S Philosophy of Education

PHL 035Y/S Belief, Knowledge, and Truth

PHL 045Y/S Philosophy in the Late Modern Age

PHL 055Y/S Symbolic Logic I

PHL 075Y/S Philosophy of Science

PHL 085Y/S Philosophy of Language

PHL 081Y/S Theories of Mind

PHL 049Y/S Philosophy in the Late Modern Age

PHL 055Y/S Symbolic Logic II

PHL 065Y/S Modal Logic and Probability

PHL 049Y/S Metaphysics

PSY C29Y/S Theoretical Psychology

PSY D18Y/S Current Topics in Theoretical Psychology

Cognitive Courses

One full-course equivalent chosen from the following:

CSC A99Y/S Computer Applications

CSC B13Y/S Discrete Mathematics for Computer Science

CSC B15Y/S Computer Organization

One half-course in Anthropology at the B-level or higher.
Computer Science

Discipline Representative: V. Hulka

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 singer’s text. One of the fundamental concepts in computer science is the algorithm—a list of instructions that specify the steps required to solve a problem. Computer science is concerned with producing correct, efficient, and maintainable algorithms for a wide variety of applications. Closely related is the development of tools to foster these goals: programming languages for expressing algorithms; operating systems to manage the resources of a computer; and various mathematical and statistical techniques to study the correctness and efficiency of algorithms.

Theoretical computer science is also concerned with the inherent difficulty of problems that can be solved efficiently 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 Programme in Computer Science prepares a student for graduate study and for a professional position in the computer field. To the Specialist Programme 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 Cognitive Science.

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

Major Programme in Mathematical Science (Computer Science)

Students Programme in Computer Science for Data Management

Supervisor: D. Capra (877-7253)

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

First year:
CSC201F, CSC202F, MAT101Y or (MAT137Y or MAT137X), MAT135Y, MATB401F, MATB402Y

Second year:
CSC203F, CSC204F, CSC205F, ECSB101F or ECSB101Y, both MATB401F and MATB402F or MATB403Y

Third year:
CSC345S, CSC378F, MG1501 or MG1501, MG1502 or MG1502

* A lower-level statistics course is normally a prerequisite to STA475S.

Third or fourth year:
CSC450, 475

Three half-courses to be chosen from the following:

For the Computer Science final examination, the following courses must be included:
CSC250, 251, 252

In completing the Programme, a student is encouraged to include any Computing 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

CSC316
Numerical methods

CSC340
Information systems analysis and design

CSC372
Microprocessor software

CSC314
Interactive computer graphics

CSC428
Human-computer interaction

CSC414
Database management systems

CSC438
Computability and logic

ESC320
Economics of computers

ESC446
Computational methods for partial differential equations

ESC448
Formal languages and automata

ESC454
The business of software

ESC458
Architecture of distributed computer systems

ESC465
Programming methodology

ESC464
Operating systems

ESC478
Computer algebra

ESC484
Applied artificial intelligence

ESC485
Introduction to computational linguistics

Language processors

Major Programme in Computer Science

The Major Programme in Computer Science is a more general one. Students are required in it will be allowed to complete it.
CSCA245 Principles of Programming Languages
Telephone ID #: 07352453
A wide variety of programming styles and the programming languages that support them. Emphasis on recursion and concurrency, other programming engines such as backtracking and constraint.
Language features such as pattern matching, programs as data, and module encapsulation. Examples from languages such as Lisp, Concurrent Pascal, Prolog, Smalltalk, and Simula. Enrollment limit: 100.
Exclusion: CSC324
Prerequisite: CSC638
Session: Winter Day

MAC321 Graph Theory and Algorithms
Telephone ID #: 20433233
Graphs, subgraphs, isomorphism, trees, connectivity, Euler and Hamiltonian properties; mappings, vertex and edge colourings, planarity, network flows and strongly regular graphs. A selection of application to such problems as timetabling, personnel assignment, task form scheduling, travelling salesman, tournament scheduling, experimental design and finite geometries. Explicit algorithms and their computational complexity will be discussed whenever possible.
Exclusion: (MAC321)
Prerequisite: MAT134 or MAT144 or CSC318 or at least one other B-level course in computer science.
Session: Winter Day

CSCA456 Numerical Analysis and Optimization
Telephone ID #: 07355033
The study of methods and size of solution techniques for systems of linear equations and trust squares problems, including LU and QR-based methods. Algorithms for optimization problems, including linear programming, and for systems of nonlinear equations.
Exclusion: CSC346L, CSC350
Prerequisite: CSC358 or CSC358, MAT405Y, MA3141F and MA3142S or (MATB505)
Session: Winter Day

CSCA318 Numerical Approximation, Integration and Ordinary Differential Equations
Telephone ID #: 07355153
Co-operative Programme in Administration

Director: H. Wittmann (287-7107) Co-ordinator: Beverley Abrahams (287-7112)
Supervisor of Studies: R. S. Blair (287-7304)

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

Students prepare for careers in business, government, regulatory agencies, crown corporations or for further studies in the social sciences (MA), business (MBA), public administration (MPA), accounting (CA) and law (LLB).

Admission to the Programme
Applicants from Grade 13/14C courses (or equivalent) may gain admission directly from high school. They should indicate their choice of Scarboroug College and the Co-operative Programme in Administration on their Application for Admission to an Ontario University. They will then be sent a special application form for admission to a co-operative programme. Students from university or community college may also apply.

Admissions are granted on the basis of applicant's interest and potential ability in mathematics, commerce, public administration 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. Enrolment is limited and only a small number of applicants can be accepted each year. Admissions are considered annually in May and early June. To be considered for the first round of selection, co-op applications must be received by April 30, 1992. 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.

Specialist (Co-operative) Programme in Administration
This programme requires eight four-month terms of study, four work terms and two "off" terms over a five year period. In addition to the twenty full-course credits needed for 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 may be allowed. Work terms are arranged and scheduled by the Office of Co-operative Programmes but must be won by students in competition with co-operative students from this and other universities. During work terms students gain experience in a wide 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 resource/personnel, information systems, marketing, policy and strategic planning.

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

Evaluation of Work Term Performance on each work term is evaluated by both the company and the college. Students must submit for evaluation a report for each work term which accurately reflects the knowledge gained during the work term with academic study already completed. The college reserves the right to determine the quality of academic work completed.

To maintain standing in the programme, students may be eligible for a work term, and to receive specialization certification upon graduation, a student must
Addition, all course changes must be approved by the supervisor of studies.


economics methods in management

Statistics

1. one of:

- ECOB 535/S
- ECOB 688/S
- ECON 322/S

2. ECON 652/S

3. Management

A. ADVANCED OPTIONS

ECON 504/S
ECON 505/S
ECON 506/S
ECON 507/S

ADVANCED OPTIONS

ECON 504/S
ECON 505/S
ECON 506/S
ECON 507/S

ADVANCED OPTIONS

To be selected from one of the following areas:

I. ECONOMIC POLICY

- Students who choose Economic Policy as their Advanced Option should take ECOB 507/S in addition to the requirements listed above.

II. PUBLIC DECISION MAKING

- To be selected from courses within the Humanities, Life & Social Sciences.

III. BEHAVIORAL FOUNDATIONS

- To be selected from courses within the Humanities, Life & Social Sciences.

IV. HISTORICAL & CULTURAL FOUNDATIONS

- To be selected from courses within the Humanities, Life & Social Sciences.

V. SOCIAL AND WORK & INDUSTRY

- To be selected from courses within the Humanities, Life & Social Sciences.

VI. PROFESSIONAL COMPETENCIES

- To be selected from courses within the Humanities, Life & Social Sciences.

VII. LANGUAGE

- To be selected from courses within the Humanities, Life & Social Sciences.

ADVISOR CSH Administration Co-Op

Work Terms

Term courses are an integral part of the co-op curriculum. Practical work experience in an appropriate, related field is alternated with study terms to enhance academic studies and develop professional and personal skills.

Work term reports are required at the completion of each work term. Cumulative marks in the co-op program are 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 34.

Courses marked in bold are full-course equivalents that are 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.
Co-operative Programme in Arts Administration

Director: H. Wittmann (287-7107)
Acting Co-ordinator: Diane Quintal
(287-7114)

Supervisor of Students: J. Mayo (287-7191)

The Co-operative Programme in Arts Administration is designed for students with an interest both in the arts and in business or management, and normally requires four to five years to complete. It combines academic study in a wide variety of subjects with practical work experience, preparing students for permanent employment as arts administrators, or for further studies in Business Administration, Museum Studies, Drama, Music or Art History.

Admission to the Programme

Admission is granted on the basis of applicants’ academic performance, background in one or more of the arts, interest and potential ability in Arts Administration, and a letter of reference from a high school teacher or university instructor. Faculty in Mathematics at the high school level is highly desirable. Interviews are usually required.

Applicants from Grade 13 OAC programmes (or equivalent) should indicate their choice of Scarborough College and the Co-operative Programme in Arts Administration on their Application for Admission to an Ontario University. They will then be sent a special application form for admission to a co-operative programme. Applications will also be accepted from first-year university students.

Enrolment in this programme is limited. Decisions about admissions are made annually in May and June. To be considered for the first round of selection, co-op applications must be received by April 30. Therefore it is essential that the applicant apply to this University of Toronto at least six weeks prior to this date.

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

The Specialist (Co-operative) Programme in Arts Administration requires twenty academic courses (four years) of study and two work terms of four months each. Students complete 8.5 full-course equivalents in (A) the administrative

field, 6.0 full-course equivalents in (B) the artistic field and 5.5 additional full-course equivalents from (C) an elective field. In addition extra credits are awarded for the work terms.

A. Administrative Field of Study

The following 8.5 full course equivalents are required:

- AAD01Y Introduction to Arts Administration
- AAD02Y Introduction to Arts Administration
- ECO03Y Introduction to Economics
- ECO06Y Public Decision Making
- ECO10Y Composition: An Introduction to Expository Writing
- MGT10Y Introduction to Management
- MGT12Y Financial Accounting
- MGT13Y Organizational Behaviour
- POLS4Y Introduction to Canadian Politics

In addition students are expected to use some of their elective field (C) to take further courses in administration. The following courses are recommended:

- CSCI10Y How Computers are Used
- ECON0Y Price Theory
- ECON1Y Macroeconomic Theory and Policy
- MGT10Y Management Accounting
- MGT12Y Corporation Finance
- MGT13Y Principles of Marketing
- MGT14Y Introduction to Marketing Management
- MGT20Y Management Control Systems
- MGT21Y Encapacitated Administration
- MGT22Y The Legal Environment of Business
- MGT23Y Industrial Relations
- POLS5Y Public Policies in Canada
- POLS6Y Canadian Public Administration: Institutions and Processes
- POLS62Y Public Policy Making
- POLS66Y Administrative Politics
- POLS67Y Policy Development and Political Evaluation
- POLS69Y Comparative International Relations and Policy-Making
- POLS68Y Comparative Public Administration

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

B. Artistic Field of Study

Six full-course equivalents from one of the following fields:

I Drama

Required:

- DRA01Y An Introduction to Theatre
- DRA02Y The History of Theatre I
- DRA03Y The History of Theatre II
- DRA04Y Canadian Drama
- ENGL1Y Varieties of Drama

One full-course equivalent from the courses listed under the Major Programme in Drama, Group A (page 67) and one full-course equivalent from the courses listed under the Major Programme in Drama, Group B (page 67)

II Fine Art History

Required:

- Fine full-course equivalents in art history, one from each of the following areas:
  - Classical
  - Medieval
  - Renaissance
  - Baroque
  - Modern (1750 to the present)

One additional full-course equivalent in art history at the C-level (see page 60 for Fine Art History courses).

III Fine Art Studio

Required:

- FAC30Y Foundation Studies in Studio
- FAC31Y Introduction to Fine Art
- FAC32Y Drawing I
- FAC33Y Painting I
- FAC34Y Drawing II
- FAC35Y Painting II

One full-course equivalent in Fine Art Studio of which one must be at the C-level (see page 51). Students must meet the prerequisites for FAC30Y, an OAC in visual art or permission of instructor following a positive evaluation of a portfolio.

IV Music

Required:

- MUS01Y Introduction to Music
- MUS02Y Materials of Music I
- MUS03Y Materials of Music II

One additional full-course equivalents from Music (see page 148).

C. Elective Field of Study

A further 5.0 full-course equivalents chosen in conjunction with the programme supervisor. The purpose of the elective field is to allow students some flexibility in shaping a degree programme to their interests and future needs. In making their choices students should remember that a working knowledge of a second language, especially French, may be particularly valuable. Students 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 artistic field (I), or in the administrative field. This option in particularly valuable for students wishing to complete the special requirements in their artistic field, or for students contemplating graduate study in the arts or in Business Administration. Students considering careers in a museum or graduate work in Museum Studies should use this option to take an approved programme of courses in anthropology and other related disciplines.

Students selecting either 2. or 3. will need to consult with the programme supervisor in the chosen subject. The programme supervisor of Arts Administration can supply details of suggested elective packages.

CONSULTATION WITH THE SUPERVISOR OF STUDIES IS ESSENTIAL 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 a student's needs and abilities. Although work placements are arranged by the co-ordinator of the Arts Administration programme, they must be seen by students in competition with all applicable for positions.

Performance on work terms will be evaluated by both employer and instructor. 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 AAD01Y and AAD02Y).

56 Co-operative Programme in Arts Administration

57 Co-operative Programme in Arts Administration
Eligibility for work placements
To compete for work placement a student must be in good standing in the Program and must have completed at least ten full-course equivalents including:
- two full-course equivalents from the artistic field
- AADB01Y (Introduction to Arts Administration)
- HUMA01Y (Composition: An Introduction to Expository Writing)
- MGA10Y (Introduction to Management)
- MGA20Y (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. AADB01Y is taken after the completion of the first work term.

Standing in the programme
(7,563),(993,621)
The first year of study should consist of AADB01Y, one full-course equivalent from the artistic field, one additional full-course equivalent in an arts subject, plus HUMA01Y, or a foreign language course, or a further course in the artistic or administrative field.

Courses in the first two years of the program
The first year of study should consist of five full-course equivalents to include ECON00Y, HUMA01Y (if not taken in first year) and a balanced mixture of administrative and artistic courses.

AADB01Y Introduction to Arts Administration and Policy
Telephone ID: 0010163
The theory and practice of arts administration and policy in Canada. The course will examine all aspects of arts administration and policy, from the economic and financial problems of artists, arts organizations, service and funding agencies, to the formulation of municipal, provincial and federal arts policies. Topics include marketing of artistic works, publicity and promotion, fund raising, audience development, corporate, foundation and government support, and Canada's domestic and international arts policies. The teaching method will include lectures, class participation, term papers and guest speakers.
Exclusion: HUMA100Y
Session: Winter Day
P. Schofer
AADCH01 and AADC02 Arts Administration Co-op Work Terms
The Arts Administration Work Terms form 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 (see page 59) and pre-placement seminars. The work term report prepared by the student is a vital component of each placement experience. Course credit of 0.5 full course equivalent is earned 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.

AADCH05Y Senior Seminar in Arts Administration
Telephone ID: 00141063
The course will deal with selected problems and issues in arts administration and policy. Emphasizing on the practical experiences students have had in the field, this seminar will analyze such basic problems and issues as board management relations, corporate sponsorships, dealing with the creative personality, motivating volunteers, crisis management, the roles and responsibilities of governments and arts administration in future directions in Canada's internal and external arts policies. Students will submit written and oral reports and make presentations on these topics for discussion and evaluation. Each student's participation will be made of case studies.

Admissions are granted on the basis of the student's academic performance, background and recommendations. A letter of reference from a high school teacher or university instructor may be required. Enrolment is limited and only a small number of applicants will be accepted each year. Decisions about admissions are normally made annually in May and early June. To be considered for the first round of selection, co-op applications must be received by April 30, 1992. Therefore it is essential that the applicant apply to the University at least six weeks prior to the deadline. 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 courses (four years) of study and two work terms of four months each. Exceptionally, with the agreement of the director and co-ordinator, a third work term may be allowed. Students are eligible for their first work term after their first two years of study. 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 maintain standing in the programme, to be eligible for a work term, and to receive specialist certification upon graduation a student must maintain a cumulative grade point average of at least 2.50
- receive a satisfactory evaluation for work term performance and work term reports
- be registered as a full-time student during study terms
- complete a total of twenty full courses
There are two courses of study offered within this programme. These will be outlined below as Option A: Computer Science, Physics and Option B: Computer Science and Statistics. Note that courses need not be taken in exactly the indicated order, but if an alternative ordering is adopted, care must be taken to ensure that prerequisites are satisfied and other conflicts avoided.

Option A: Computer Science and Physics
- 10 required courses
- First Year: CS1CA5Y, CS1CA6Y, MAT1A05Y, MAT1A06Y, PHYS1A0Y
- Second Year: CS1CB5Y, CS1CB6Y, PHYS1B0Y, MAT1B1F and MAT1B4S

Option B: Computer Science and Statistics
- 10 required courses
- First Year: CS1CA5Y, CS1CA6Y, MAT1A05Y, MAT1A06Y, PHYS1A0Y
- Second Year: CS1CB5Y, CS1CB6Y, PHYS1B0Y, MAT1B1F and MAT1B4S
Normally, students return to their studies after each work term and must be registered in courses after the completion of their last work term. CSPS01-03H1 Computer Science and Physical Sciences Co-op Work Term work terms are an integral part of the co-op curriculum. Practical work experience is in an appropriate, related field. It 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. Co-operative is 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 credit of 0.5 full-course equivalents 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.

Co-operative Programme in International Development Studies

Director: H. Wilman (287-7107)
Supervisor of Studies: P. Lien (287-7173)

The Co-operative Programme in International Development Studies is intended for students with an interest in international development, in geography, ecology and economics, and in the relations of Canada with developing countries. The programme combines academic study in the social and ecological sciences with practical work experience in a developing country, and specifies that it requires up to five years to complete. An effort to meet the requirements of the programme is usually made by a Canadian or Third World development agency, a central 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, economic and political science.

Graduates receive a four-year B.A. or B.Sc. with specialist certification in International Development Studies.

Admission to the Programme

- Applicants from Grade 12/AC programmes (or equivalent) should indicate their choice of Queen's College and the Co-operative Programme in International Development Studies on their Application for Admission to an Ontario University. They will then be sent a special application form for admission to a co-operative programme.
- From first-year university: Students accepted by the University and College may apply whether or not they have completed any part of the first year curriculum. The timing of their work placement will depend upon the particular university courses they have already completed.

Admissions are granted on the basis of the applicants' academic performance, background in relevant subjects, language skills, prior experience in international development studies and work, and a letter of reference from a high school teacher or university instructor. Entrance is limited and interviews are required. Admissions decisions are normally made from late May until early July. To be considered for the first round of selection, co-op applications must be received by April 30, 1992. It is essential that the applicant apply to the University at least six weeks prior to this deadline.

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

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

This programme requires twenty courses (four years of study), and a special specialisation of approximately ten to twelve months duration. The work term will normally begin no sooner than the end of the third year and no later than January of the fourth year of the Programme. Work placements are arranged by the Office of Co-operative Programmes. Students must be registered in four terms of a position. The locations of the placements will vary according to each student's discipline and regional preferences and abilities, the availability of positions, and the practicability and safety of placement. Students may serve with the administration or management of research or development programmes of Canadian or local development agencies, universities, schools and organizations in a developing country.

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

Eligibility for Work Placements

To compete for work placement a student must:
- have completed at least fifteen full-course equivalents including at least five full-course equivalents in the core programme (Section A) and at least one full-course equivalent from the regional and language options.
- have completed at least fifteen full-course equivalents in their studies and enrol in IDSD001Y (International Development Studies: Advanced Seminar) and any other courses as necessary to complete their degree.
- have completed at least fifteen full-course equivalents in their studies and enrol in IDSD001Y (International Development Studies: Advanced Seminar) and any other courses as necessary to complete their degree.
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:**

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

- **ANTC11Y** The Anthropology of Women
- **ANTC19/S** Economic Anthropology
- **ANTC351Y** Medical Anthropology
- **ANTC356Y** The Anthropology of Food
- **ANTC607/S** Fieldwork in Social and Cultural Anthropology
- **ECOB10Y** Price Theory
- **ECOB107Y** Macroeconomic Theory and Policy
- **ECON250Y** International Economic Institutions
- **ECOC640Y** Economic Development
- **ECOC971Y** Development Policy* (if not taken as part of core requirements above)

OR

- **GGRD09FS** Issues in Rural Development
- **GGRD09Y** Problems in Modern Agriculture
- **POL291Y** Agricultural Land Use
- **POL391Y** Politics of the Third World
- **POL392FS** Selected Topics on Developing Areas
- **POL394Y** Selected Topics on Developing Areas
- **POL445Y** Canada and the Third World
- **SOC179FS** Social Change in the Third World
- **WSTC10Y** Women and Development

One half-course in Statistics

II. Ecological Resource Management

At least three full-course equivalents chosen from:

- **ANTC01Y** Ecological Anthropology
- **ANTC31Y** Medical Anthropology
- **BIO122Y** Fundamentals of Ecology (Note: BIO030Y Introductory Biology is a prerequisite - students in this stream are strongly encouraged to take BIO030Y)
- **BOT204Y** Applied Botany
- **GGRD455H** Advanced Forest Ecology
- **GGRD456H** Forest Soils II
- **GGRD603Y** Climatology
- **GRI101Y** General Geomorphology
- **GRC225Y** The Hydrology of Surface and Subsurface Waters
- **GEO207H** Airphotos
- **GEO305H** Biogeography
- **GEO310H** Descriptive Geology
- **GEO335H** Environmental Change
- **GEO393H** Methods of Environmental Impact Assessment
- **GRI416H** Field Studies in Environmental Assessment
- **GRI417H** Remote Sensing of the Environment

One half-course in Statistics

C. Regional and Language Options: At least two full-course equivalents chosen from courses dealing with a designated development region. One of these full-course equivalents should be in a language appropriate for work in developing countries. Students with a functional knowledge of an appropriate language may substitute non-language regional courses. Selection of a region and courses is subject to approval by the supervisor of studies. Some approved courses for two regions are listed below.

**Latin America**

- **ANTC19FS** The Americas: an Anthropological Perspective
- **ANTR675Y** Comparative Slavery
- **ENGR205** Contemporary Literature in English, Africa and the West Indies
- **GGRD24H** Historical Geography of Latin America
- **GGRD26H** Contemporary Latin America
- **HIS29Y** Latin America: the Colonial Period
- **HIS29Y** Latin America: The Colonial Period
- **HIS34Y** Protestant and Change in the Caribbean
- **HIS49Y** Topics in Modern Latin American Social History
- **HUMC14Y** Topics in Latin American Culture and Literature
- **POL9Y** Politics and Society in Latin America
- **POL44Y** Topics in Latin America: Politics I and II
- **PRIN2001** Aspects of Brazilian Culture
- **SOC12H** Social Change in Latin America

**Africa**

- **at least one full-course equivalent from:**
  - **SFA205Y** Introductory Spanish
  - **SPA200Y** Language Practice I
  - **SPA204H** Intermediate Spanish
  - **SPA210H** Language Practice II
  - **PRT100Y** Introductory Portuguese
  - **PRT122Y** Language Practice
Drama

Discipline Representative
M.Q. Schonberg (287.7145)

The Drama course at Scarborough College has been devised to serve both students who are interested in Theatre Studies and those who have a casual interest in the subject. We offer two types of courses which complement each other: theoretical and practical. The theoretical courses are in the History of Theatre, in which the student becomes familiar with the development of theatre from a non-literate point of view from its classical beginnings to the present day. These courses are augmented by courses in the dramatic literatures of several countries which are offered by members of the faculty who specialize in these areas. Advanced students may choose an Independent Studies course or Directed Reading course, where they work individually under the supervision of their own tutors.

In the practical courses, students become involved with all aspects of theatre production in studio situations, both as actors and technicians. Students study both with faculty members and with professional artists and teachers.
**Preface:** The full-course equivalents are shown in white text.

**Programme:** The full-course equivalents are shown in black text.

**Courses:** The full-course equivalents are shown in green text.

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**Programme:** Full-course equivalents are shown in black text.

**Courses:** Full-course equivalents are shown in green text.

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**Preface:** Full-course equivalents are shown in white text.

**Programme:** Full-course equivalents are shown in black text.

**Courses:** Full-course equivalents are shown in green text.
Drama

will include ballet, opera, and so-called "lesser" theatrical forms, i.e. music hall, vaudeville, burlesque theatre, circuses.

The text will be Oscar Brockett. History of Theatre, Third Edition. Other texts will be announced in the spring.

Exclusion: DRM264, DRM266
Session: Winter Day
P. Spedalita
Offered 1992/93
Not offered 1993/94

DRA/B5Y The Art and Nature of Comedy

Telephone ID #: 04025163
A study of the comic form in the theatre and film.

The student will read plays by the masters of comic drama and view films that are classics in the history of comic cinema. Representative theatrical works will be studied with reference to the political and social aspects of comedy.

The types of comedy explored will cover a wide range of works from farce to burlesque to comedy of ideas, political and literary satire, and the comedy of the absurd.

The course will be taught in lectures and seminars.
Session: Winter Day
M.Q. Schoenberg
Offered 1992/93
Not offered 1993/94

DRA/B7Y Dramatic Literature and Political Revolution

Telephone ID #: 04030163
A study of plays which deal with the various aspects of political revolution.

Political revolution is perhaps the most striking feature of modern political change. From about 1800, dramatists have been fascinated with the political, social, and philosophical issues raised by the apparent either/or of revolutionary change.

Topics will be drawn from European and North American literatures. All texts will be read in English.
Exclusion: DRU350 (LIT185) (HUM484)
Prerequisites: LIT401 or ENA401 or FREA30 (FRS820) or one full-course equivalent in literature
Session: Winter Day
H. Ohlendorf
Offered 1992/93
Not offered 1993/94

DRA/C1Y Intermediate Workshop in Theatre Performance

Telephone ID #: 04030163
This course is designed to enable advanced students to concentrate on problems related to the staging of plays in studio situations.

One portion of the course is devoted to work with TV-video tape equipment. A minimum of three hours weekly in formal groups, and additional time in rehearsal, will be devoted to advanced exercises in: acting skills, scene work, and work on productions.
Exclusion: DRM500
Prerequisites: DRA/B1Y
Session: Winter Day
M.Q. Schoenberg
Offered 1992/93 and 1993/94

DRA/C8Y Individual Studies in French Theatre and Drama in Translation

Detailed textual analysis, in-depth acute study and elements of directing for the stage.

The course will include work on theatrical technique in areas such as period style, masks, improvisation, stage fighting, etc. Students are expected to work on group projects, as well as specific assignments according to their individual area of interest.
Exclusion: DRM400
Prerequisites: DRA/C1Y or DRA/C2Y
Session: Winter Day
P. Spedalita
Offered 1992/93
Not offered 1993/94

DRA/D0Y Advanced Workshop: Performance and Directing

Telephone ID #: 04014513
Detailed textual analysis, in-depth acute study and elements of directing for the stage.

DRA/D3Y Individual Studies in German Theatre and Drama in Translation

DRA/D5Y Individual Studies in Italian Theatre and Drama in Translation

DRA/D4Y Individual Studies in Spanish Theatre and Drama in Translation

Individuals will study under the supervision of members of the appropriate language discipline, and details of course content and evaluation will be arranged in consultation between the student, a member of the language discipline, and the Drama Supervisor.

In these courses the emphasis will be on advanced, individual initiative, with the faculty member acting as tutor rather than director.
Prerequisite: At least ten full-course equivalents, two of which must be DRA/B3 and DRA/B4. These courses are intended for students specializing in Drama who are not sufficiently fluent in French/ German/ Italian/ Russian/ Spanish to read the works in the original language. Permission of Supervisor required.
Session: Winter Day
M.Q. Schoenberg

DRA/C20H Theatre Seminar

Telephone ID #: 04022043
A course combining the experiences of either the Stratford or London Seminars with aspects of the history of theatre.

Students will be expected to attend one of either the Stratford or London Seminar sessions. Before the last day of the previous spring term a brief statement about the project which will deal with a specific aspect of the history of the theatre must be signed by the supervisor. By early October a more developed statement must be submitted to the supervisor. A substantial paper on this topic will make up the final grade. Students will be expected to take on the financial responsibilities necessary for this course.
Exclusion: None
Prerequisites: DRA/B0Y and DRA/B3Y
Session: Summer Day Winter Day
Co-ordinator: A.J.G. Patton
Offered 1992/93 and 1993/94

Economics

Assistant Chair: M. Krashavsky

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 not 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 course (ECON20Y or ECON205Y); the initial B-level course - Price Theory (ECON30Y or ECON304Y) and Microeconomic Theory and Policy (ECON31Y or ECON314Y); at least one course that provides a different perspective either on contemporary economic theory, or on ways of organizing economic activity - Economic History (ECON401Y, ECON402Y, ECON403Y), the Literature of Economics (ECON239Y, ECON239S), Comparative Economic Systems (ECON688S). A student who wants to pursue Economics in depth should consider seriously acquiring a background in Accounting, Statistics, and Computer Science and, most important of all, 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 generally take ECON20Y (the mathematical version of the introductory course), although students who choose ECON201Y (the non-mathematical version) will be able to enter those specialist programs if they have completed calculus. We encourage these specialists to take MATA20Y.
may not be advisable for all students. Students who are interested in Economics and in other areas as well should refer to the Economics course descriptions, and to the Major Programme in Economics.

The Programme is designed for students considering employment in fields where a knowledge of economic theory and a modest ability to do research are important. The Programme is not a gateway of employment but it does provide the basic quantitative and theoretical skills that are desirable for decision-making in business and government.

Students must complete at least ten full-course equivalents as specified below and not more than fourteen full-course equivalents in Economics. The following specific courses must be included as part of the ten core minimum:

- ECON201Y or ECON202Y
- MATH241P or (MATA27Y)
- ECON306Y
- ECON307Y or all 3 of STA221F and STA237S and STA347F
- ECON309Y
- ECO225P or ECO226S
- ECOC1Y
- ECOC605P or ECO605Y or ECO681Y or ECO682Y or ECO309Y
- ECOC315P and ECOC316S
- ECON001H

At least one full-course or two half-courses from the following introductory Humanities courses:

- CLA201F, CLA202F, CLA211P, CLA212F, CLA213F, CLA214P, CLA215F
- ENGL11Y, ENGL201Y, ENGL301Y, ENGL401Y, ENGL402Y, ENGL403Y, ENGL404Y, ENGL405Y, ENGL406Y
- FRE301Y, FRE302Y, FRE303Y, FRE304Y, FRE305Y, FRE306Y
- GER11Y, GER12Y, GER13Y, GER14Y, GER15Y, GER21Y
- HIST101Y, HIST201Y, HIST301Y
- HUM311Y, HUM312Y, HUM313Y, HUM314Y, HUM315Y, HUM316Y, HUM317Y

No more than four of the above courses will count towards the history of economic thought (CHosen in consultation with programme supervisor).

Specialist Programme in Economics and History

*Note: In consultation with the History Department, you are required to 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 ECO309Y/ECO310Y and at least one of ECO201Y and ECO202Y.

Students must have completed 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 ECO309Y/ECO310Y and at least one of ECO201Y and ECO202Y.

Requirements: Thirteen and one full-course equivalents in a degree programme of at least twenty full-course equivalents of which six and one half are in Economics and seven are in History.

Required courses in Economics:
- ECO201Y or ECO202Y
- ECO309Y or ECO310Y
- ECO311Y or ECO310Y or ECO312Y or ECO313Y
- ECO314Y or ECO315Y or ECO316Y or ECO317Y
- ECO319Y or ECO320Y or ECO321Y or ECO322Y
- ECO331Y or ECO332Y or ECO333Y or ECO334Y
- ECO335Y or ECO336Y or ECO337Y or ECO338Y

A further one full-course equivalent in ECO or MGT.

One course from the following options is required:

*Note: In consultation with the History Department, you are required to 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 ECO309Y/ECO310Y and at least one of ECO201Y and ECO202Y.

Students must have completed 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 ECO309Y/ECO310Y and at least one of ECO201Y and ECO202Y.

This Programme is designed for students considering the possibility of graduate work in mathematical economics.

*Note: In consultation with the History Department, you are required to 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 ECO309Y/ECO310Y and at least one of ECO201Y and ECO202Y.

This Programme is designed for students considering the possibility of graduate work in mathematical economics.
The Programme consists of six full-course equivalents in Economics, and one in Humanities. The Economics courses must include:

- ECO307Y or ECO307J
- ECO310Y or ECO310J
- ECO320Y or ECO320J
- ECO330Y or ECO330J
- ECO340Y or ECO340J
- ECO350Y or ECO350J

One full-course equivalent chosen from the C-level courses in Economics. The Humanities course must be selected from the options listed for the Specialist Programme. Where students are enrolled in Majors in both Economics and Management, the same course may be used to satisfy the distributional requirement, without counting against the regulations that only two courses used to satisfy programmes may overlap (see Programme Requirements). Regulations concerning Programmes of Study, item 2, in the Calendar. It is recommended, but not required, that a student also include one course chosen from ECO366Y, ECO388Y, ECO389Y, ECO393Y, ECO394Y, ECO395Y.

ECO392Y Introduction to Economics: A Mathematical Approach
Telephone ID: 04330263
A study of economic theory and its application to contemporary Canadian economic problems. Problems discussed include: unemployment, inflation, pollution, poverty, monopoly. A mathematical approach to economic analysis is used in this course and is oriented principally towards students who plan to enter the various specialist programmes in Management and in Economics.

ECO392Y is a prerequisite for ECO393Y, ECO3900, ECO3300, ECO3400, and ECO3500. It is a prerequisite for ECO392Y and students who complete ECO392Y may enrol in each of the programmes in Economics.

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countries. Class size is limited to 80 per section. Exclusion: ECBO89Y, ECBO22, ECBO24
Prerequisite: ECOA08Y or ECOA03Y Session: Winter Day, Winter Evening

ECBO89Y Macroeconomic Theory and Policy: A Mathematical Approach Telephone ID #: 04323063
Intermediate level development of the principles of macroeconomic theory and policy. This course will cover the same topics as ECBO89Y, but will employ techniques involving calculus so as to make the theory clearer to students. Exclusion: ECBO89T, ECBO208, Prerequisite: ECBOA02Y, students who completed ECBO89Y may enroll in ECOA89Y if they simultaneously enroll in MAT208Y Session: Winter Day

ECBO125 Quantitative Methods in Economics I Telephone ID #: 04321253
An introduction to probability, statistics, and regression analysis as used in economic analysis. Topics to be covered include: probability, discrete probability distributions (normal, binomial), sampling theory, confidence intervals, hypothesis testing (parametric and non-parametric methods). ANOVA, simple and multiple regression. There will be a number of computer assignments. Limited enrolment: 80 per section. Exclusion: ECBO125, ECBO122, ECBO22, ECBO208, Prerequisite: Registration in one of the programmes in Economics and/or Commerce or Administration, also ECBO20Y (ECBO11), or STA422 and STAB42 NOTE: This course will not be offered after 1992/93 Session: Winter Evening

ECBO127F Location and Spatial Development Telephone ID #: 06922733
An examination of the use of competitive location models, spatial analysis of regional economic growth and decline. Topics include Ricardian rents and spatial equilibrium, trade flows and spatial price equilibria, geographical market areas and spatial pricing policies, the location of a firm with modular resources, industry location in equilibrium, trade theory and regional specialization, and the regional growth models of Schumpter and Myrdal. Two hours of lectures and one tutorial hour per week. (N.B. This course may count as a half-course in Economics for all Economics and Management Programmes.) Exclusion: ECBOA02Y or ECOA03Y Session: Winter Day J. Miran

ECOM08S Comparative Economic Systems Telephone ID #: 04325083
An introduction to alternative ways of organizing economic activities - allocating resources, distributing income, accumulating capital. Part of the time will be spent examining three different alternatives from a theoretical perspective, the rest will be devoted to studies of particular economies, especially Canada, the Soviet Union and Yugoslavia. Exclusion: ECBO120 Prerequisite: ECOA02Y or ECOA03Y Exclusion: ECBO120 Prerequisite: ECOA04Y or ECOA01 Exclusion: ECBO120 Prerequisite: ECOA04Y or ECOA01 Corerequisite: ECOBO3 Session: Winter Day

ECOB11Y North American Economic History Telephone ID #: 04328163
A survey of important themes in the economic history of Canada and the United States. A comparative approach is employed to develop such themes as the role of natural resource staple industries, and urbanization, and the relationship of the state to economic change in the two countries. Exclusion: ECBO221, ECBO222, ECOBO3 Prerequisite: ECBOA3 Session: Winter Evening

MGT103F Principles of Finance Telephone ID #: 51930133
The objective of this course is to provide students with the skills and tools to make optimal corporate financial decisions. It deals with general approaches for valuing cash flows. Enrolment is limited to programs requiring this course. Exclusion: MGT102 (ECBO11), Prerequisite: MGT101 (ECBO11) or COM101, ECOBO3 or ECOBO4 Session: Winter Day

MGT109S Intermediate Microeconomics Telephone ID #: 33350353
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. Exclusion: MGT103 (ECBO11) Prerequisite: MGT103, ECOBO99Y (ECBO11) Session: Winter Day

ECO11Y Econometrics Telephone ID #: 04321163
A formal development of multiple regression analysis using matrix algebra. Application of statistical techniques in testing economic theory. The implications and treatment of special statistical problems that arise in estimating economic relationships. A research paper is required. Exclusion: ECBO37 Prerequisite: ECOB093 or ECOB094, ECOB017 or ECOB034, ECOB019, MAT248Y or MAT284Y or permission of instructor Session: Winter Day

ECO131F Advanced Macroeconomic Theory Telephone ID #: 04331033
An upper level examination of the ideas studied in ECOB03. The course offers a more sophisticated treatment of such topics as equilibrium, welfare economics, theories of the firm, linear programming, income distribution, risk and uncertainty. Exclusion: ECBO208 Prerequisite: ECOB03 or ECOBO4, ECOB11, MAT248 or MAT26 (MAT247) or (MAT255) Session: Winter Day

ECO134S Advanced Macroeconomic Theory Telephone ID #: 04331453
Post-Keynesian developments in macroeconomics (including monetary) theory, empirical testing of Keynesian and post-Keynesian macroeconomic theories, and the uses of macroeconomic models. Exclusion: ECO225 Prerequisite: ECOBO3 or ECOBO4, ECOBO17 or ECOBO8, ECOBO04 (ECBO11), MAT248 or MAT26 (MAT247) or (MAT255) Session: Winter Day

ECO225 History of Economics I: Adam Smith to Karl Marx Telephone ID #: 04325035
A study of the literature of classical Political Economy, especially the work of Adam Smith, Mill, Ricardo, J.S. Mill, and Marx. Exclusion: ECBO122 Prerequisite: ECOBO3 or ECOBO4 or ECOBO8 or ECOBO9 Exclusion: ECOBO3 or ECOBO4 or ECOBO8 or ECOBO9 Session: Winter Day (if space is not used to satisfy the prerequisite)

ECO246S History of Economics II: Origins of Modern Economic Theory Telephone ID #: 04326533
A study of classical literature of Political Economy between 1870 and the 1930s, especially the work of Jevons, Wicksin,
ECO321S Economics of the Public Sector: Taxation
Telephone ID: # 04333123
A course concerned with the revenue side of government finance. In particular, the course deals with existing tax structures, in Canada and elsewhere, and with criteria for tax design. Limited enrolment: 60
Exclusion: ECO326
Prerequisite: ECO303 or ECO304
Session: Winter Evening

ECC02.22F Economics of the Public Sector: Expenditure
Telephone ID: # 04333233
A study of resource allocation in relation to the public sector, with emphasis on decision criteria for public expenditures. The distinction between public and private goods is central to the course. Limited enrolment: 60
Exclusion: ECO326
Prerequisite: ECO303 or ECO304
Session: Winter Evening

ECO375S Law and Economics
Telephone ID: # 04333753
A study of laws and legal institutions from an economic perspective. Includes the development of a positive theory of the law suggesting that laws frequently evolve as a means to maximize economic efficiency. The efficiency of various legal principles is examined. Topics covered are drawn from: externalities, property rights, environmental law, contracts, torts, product liability and consumer protection, criminal law, and procedure. Limited enrolment: 60
Exclusion: ECO202
Prerequisite: ECO304 or ECO303 (ECO303 or ECO304 will be accepted as a corequisite when ECO375 is taught in the second term of the winter session)
Session: Winter Evening

ECO411S Industrial Organization
Telephone ID: # 04334133
The economics of the firm in a market environment. The aim is to study business behavior and market performance as influenced by concentration, entry barriers, product differentiation and diversification.
Limited enrolment: 60
Exclusion: ECO310
Prerequisite: ECO303 or ECO304
Session: Winter Evening

ECO311F Labour Economics I
Telephone ID: # 04331133
Applications of the tools of microeconomics to various labour market issues. The topics covered will include: fertility and family formation; labour supply; labour demand; equilibrium in competitive and non-competitive markets; non-market approaches to the labour market; unemployment. Policy applications will include: income maintenance programmes; minimum wages; unemployment insurance benefits; poverty. Limited enrolment: 60
Exclusion: ECO310, 359
Prerequisite: ECO303
Session: Winter Evening

ECO322S Labour Economics II
Telephone ID: # 04332213
A continuation of ECO311F. Topics covered will include: union; wage structure; sex and race discrimination; human capital theory; investment in education. Policy issues discussed will include: pay equity; affirmative action; training initiatives; migration. Limited enrolment: 60
Exclusion: ECO310
Prerequisite: ECO304 or permission of instructor
Recommended preparation: ECON 310, 314, 321, 322, or equivalent.
Session: Winter Day

MGT354Y Industrial Relations
Telephone ID: # 33535463
A study of industrial relations in the Canadian setting. Topics include: industrial relations theory and systems; history, philosophy and structure of unionism, labour law, and a collective bargaining negotiation exercise.
Limited enrolment: 80
Exclusion: ECO324
Prerequisite: ECO303 or ECO304
Session: Winter Day

ECO378S Development Policy
Telephone ID: # 04336753
A consideration of how government policy can affect the pace and nature of development in Third World countries. Emphasis will be on the most important policies including those relating to population growth, international trade and investment, public finance, education, and technology. Limited enrolment: 60
Exclusion: ECO324
Prerequisite: ECO303
Session: Winter Day

ECO311S International Economics: Finance
Telephone ID: # 04331133
Macroeconomic theories of the balance of payments and the exchange rate in a small open economy. Recent theories of exchange-rate determination in a world of flexible exchange rates; the forward exchange market. The international monetary system; fixed "convertible" flexible exchange rates; international capital movements, monopsony markets and their implications for monetary policy. Limited enrolment: 60
Exclusion: ECO328
Prerequisite: ECO307 or ECO308
Session: Winter Day

ECO32F International Economics: Trade Theory
Telephone ID: # 04332333
An outline of the standard theories of international trade: analysis of the factors on which a country's trade with other countries is based and the welfare implications of this trade; and empirical tests of these theories; Economic growth and international trade: The instruments and effects of trade policy (tariffs, quotas, non-tariff barriers); the theory of customs unions. Limited enrolment: 60
Exclusion: ECO308
Prerequisite: ECO303 or ECO304
Session: Winter Day

ECO346F Economic Development
Telephone ID: # 04334663
An introduction to the processes of growth and development from developed country and regions. Topics include the role of international trade and investment in developing countries, the problems of population growth and unemployment, inequalities in income distribution, the role of agriculture and industry. Limited enrolment: 60
Exclusion: ECO324
Prerequisite: ECO303 or ECO304
Session: Winter Day

ECO301F and ECO301S Supervised Reading
For upper-level students whose interests are not covered in one of the other courses normally offered. Students are expected to design the course with the guidance of a staff member interested in the area of study being proposed. The courses will normally be made available only to students whose performance in Economics courses has been well above average. Students interested in supervised reading are urged to contact faculty members well in advance, as not all faculty will be available for these courses in any single term.
Prerequisite: Permission of instructor
Session: Summer Day, Summer Evening, Winter Day, Winter Evening

ECO305Y Workshop in Economic Research
Telephone ID: # 04335043
This course discusses with students the techniques used by economists to define research problems and to do research. In the first term, various members of the staff will discuss their approaches to research. At the end of the term, students will choose a research problem and a faculty member with whom to work. During the second term, students will research and write papers on their topic and present their ongoing work to other members of the class.
Prerequisite: ECO304 and ECO308 (or ECO303 and ECO304 and first year calculus) ECO312. This course should be taken among the last 5 courses of a twenty course degree.
Session: Winter Day

Corosus Not Offered in 1992-93

ECO315S Public Decision Making
Prerequisite: ECO303 or ECO304 (ECO304)
ECO322Y The Economic History
Exclusion: ECO101, 201, 453
Prerequisite: ECO302 or ECO303 (ECO302)
ECO48F/3 Monetary Economics
Exclusion: ECO348
Prerequisite: ECO306
ECON313Y Economic History 1914-1971  
Exclusion: ECON83; ECON84  
Prerequisite: ECONA03 and 3 B-level courses in Economics or History.

English

Discipline Representative: W.J. Howard  
(287-7156)

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 in the study of English at the university level. The course is designed both for students planning a Specialist or Major Program in English and for students having a general interest in the subject.

English 101Y and 102Y are required for all students planning a Specialist or Major Program in English.

Other B-level courses require no prerequisites 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. 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 in enrolment 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 programs, and to check with the Discipline Representative before taking courses on offer campuses.

The Specialist programme in English offers an 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 Supervision: W.J. Howard (287-7156)

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

1. ENGA11Y Reading Literature: The 20th Century
2. ENGBC0Y Critical Thinking
3. ENGBC02Y English Literature: Historical Survey
4. ENCG05Y English Literary Criticism
5. Four 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. Two full-course equivalents in English at the D-level
7. Two full-course equivalents in other Humanities disciplines. The following are particularly recommended:
   CLAR01Y Greek and Roman Mythology
   CLAS119Y The Classical Element in English
   CLAC02Y Greek and Roman Epic
   CLAC03Y Greek and Roman Tragedy
   HIS102Y Britain from the Eighteenth Century to the Present
   HISC32Y Tudor and Stuart England (Prerequisite: One B-level course)
   HUMA02Y Prose
   HUMA03Y Prose II: East Asia and the Middle East
   LIN101Y General Linguistics
   PHIL202Y Philosophy and Art
   PHL1104Y Philosophy of Literature
   WSJ011Y Introduction to Women's Studies
   Alternatively, students are encouraged to follow a sequence of language courses in fulfillment of this requirement.

Major Programmes in English Supervision: W.J. Howard (287-7156)

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

1. ENGA11Y Reading Literature: The 20th Century
2. ENGBC02Y Critical Thinking
3. ENGB02Y English Literature: Historical Survey
4. Three additional full-course equivalents in English at the B, C or level, one of which must be at the C-level. These four courses must include:
   a) one full-course equivalent in periods before 1800 (See list A)
   b) one full-course equivalent in periods after 1800 (See list B)
5. One full-course equivalent in English at the D-level

LIST A: Pre-1800 courses:

- ENGB11Y Shakespeare
- ENGB02Y Chaucer
- ENGB02Y Prose and Poetry of the
  English Renaissance 1500-1600
- ENGB33Y English Drama to 1642
- ENGB34Y English Literature of the
  Early 16th Century
- ENGB37Y English Literature of the Late
  18th Century
- ENGB38Y Fiction before 1832

LIST B: Post-1800 courses:

- ENGB02Y Canadian Literature in
  English: an Introduction
- ENGB03Y American Literature: an
  Introduction
- ENGB11Y Contemporary Literature in
  English: Africa and the West Indies
- ENGB11Y Contemporary Literature in
  English: Australia and India
- ENGB02Y The Canadian Short Story
- ENGB02Y Canadian Drama
- ENGB02Y The Short Story
- ENGB02Y Canadian Fiction in English
- ENGB11Y Major American Authors
- ENGB02Y The Short Story
- ENGB02Y Victorian Poetry
- ENGB02Y Fiction 1832-1950
- ENGB02Y Modern Drama
- ENGB31Y Twentieth-Century Poetry
- ENGB31Y Fiction 1950-1990
- ENGB35Y British Fiction Since 1960
- ENGB35Y American Fiction Since 1960
- ENGB35Y Drama Since 1960

ENGL11Y Reading Literature: The 20th Century

Telephone ID #: 03511163
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.

What is involved in the activities of reading and writing? What is the relationship between what we read and what we make sense of ourselves? How does literature in the twentieth-century challenge and shape our notions of truth and perception of reality? These are some of the questions the course will explore. The course will include works by men and women of different cultural backgrounds and nationalities.

All sections of the course will require a selection of written assignments and final examinations.

Note: This course is designed to accommodate any student with an interest in reading at the university level. It is also the prerequisite to 101Y, the required introductory course for majors and specialists in the English Programme.

Exclusion: ENGSA01, A02, A08, ENG102 Session: Winter Day
Course Coordinator: K. Thiel
Offered 1993/94 and 1994/95

ENGL21Y Critical Thinking and Writing

Telephone ID #: 03520163

Through the reading of poetry, fiction and essays students will learn how to discuss works of literature, and how to present their views in a considered and cogent way.

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

In the first term there will be a strong emphasis on vocabulary development and grammatical accuracy through various written exercises. The development of aesthetic responses to literary texts will also be an important aim of the course. The aim of writing will be encouraged to develop independence, and students who have not maintained a grade of at least C in the first term will be counselled to drop the course. The aim of reading will focus on a major work of literature. In addition to expanding the writing skills learned in the first term, we will explore a variety of critical approaches to the selected text.

Exclusion: ENGA01Y
Prerequisite: ENGL11Y
Second Writer: J. Kay
Offered 1993/94 and 1994/95
ENG202Y English Literature: Historical Survey
Telephone ID #: 05520063
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 ENG201Y.
This course provides a general introduction to the main periods of English literary history: the Mediaeval, Renaissance, Restoration, Eighteenth-Century, Romantic, Victorian, and Modern periods. Reading will be extensive, involving brief selections from approximately fifty writers. The primary text is The Norton Anthology of English Literature (5th Edition), Vols. 1 and 2; further texts will be announced.
Note: This is exclusively a lecture and examination course. Students are advised to combine this course with ENG201Y in order to include group discussions, detailed textual study, and practice in essay writing in their study of English.
Session: Winter Day
W.J. Howard
Offered 1993/94 and 1994/95

ENG208Y American Literature: An Introduction
Telephone ID #: 05520063
A broad survey of the development of literature in America from the early Colonial period to the twentieth century.
The reading will include excerpts from journals, letters and various historical documents presented as cultural and historical background to the issues explored in American literature.Opera will be explored include: What is the make-up and significance of the American Dream? What is distinct about the American Hero? How are such themes discerned as good versus evil, or vice versa redemption; presented and interpreted in an American context?Short stories works by a wide variety of writers will be featured (Mark Twain, Ernest Hemingway, James Joyce, Fitzgerald) as well as several longer works intended to represent some of the many different cultural points of view operating within the framework of the American experience (Moby Dick, The Sun Also Rises, Native Son, Catcher in the Rye, The Bluest Eye, Traveller Monkey, Empire of Senseless).
Session: Winter Day
G. Leonard
Not offered 1993/94 or 1994/95

ENG210Y Shakespeare
Telesephone ID #: 05521063
A study of at least eleven plays by Shakespeare, both as unique works of art and in the larger context of his work as a Renaissance dramatist.
A list of texts will be available in HS215.
Exclusion: ENG220
Session: Winter Day
M. Gasparie
Offered 1993/94 and 1994/95

ENG211Y Varieties of Drama
Telephone ID #: 05521163
A study of drama from ancient Greece to the present day.
The course introduces students to the wide range of drama through the study of at least twelve plays, including Sophocles, Oedipus the King; Aristophanes, Lysistrata; Shakespeare, King Lear; As You Like It; Wilde, The Importance of Being Earnest; Beckett, Krapp's Last Tape; Miller, Death of a Salesman; Williams, A Streetcar Named Desire; Pasto, The Homecoming; Churchill, Cloud Nine, and at least one Canadian play. Students are encouraged to think about the relationship between dramatic texts and their theatrical production, and to consider the relevance of generic labels, such as tragedy, comedy, tragicomedy, and such concepts as realism, expressionism, and the theatre of the absurd.
Exclusion: DDM1000, ENG1222
Session: Winter Day
R. Thed
Shakespeare 1993/94 and 1994/95

ENG214Y Varieties of Fiction
Telephone ID #: 05521463
A study of fictional strategies and techniques, drawing on a wide range of examples from early periods of narrative to the present day.
About 10 weeks will be studied, including short stories, novels, and novellas. Emphasis will be placed on the formal and structural dimension and on its relationship rather than on chronological development and its historical background. The course will consider such aspects as the significance of the narrative voice, the role of the narrator, and the relationship between realism and fantasy.
Texts to be announced.
Session: Winter Day
A. Thoma
Offered 1992/93 and 1993/94

ENG215F The Canadian Short Story
Telephone ID #: 05522553
A study of contemporary short stories written by Canadian authors.
This course will not be a historical survey, but an examination of collections by eight of the contemporary writers whose work has brought the Canadian short story into international prominence. Attention will also be paid to thematic aspects of the short story as a literary form.
The course will use single author collections rather than an anthology. Reading will be based on Alister MacLeod's The Last gift of Blood and will include selections from: Alice Munro, The Maps of Jamaica; Margaret Atwood, Bluebeard's Egg; Mavis Gallivan, The End of the World and Other Stories; and Hugh Hood, Flying a Red Kite.
Exclusion: ENG215
Session: Winter Day
TBA
Not offered 1993/94 and 1994/95

ENG234S The Short Story
Telephone ID #: 05523453
An introduction to the short story as a literary form.
The course examines the special appeal of the short story for writers and readers; the particular effects it is best able to produce, and its origins and recent development. The reading will be drawn from different countries and periods in order to explore the variety of possibilities within the form.
Session: Winter Day and Summer Evening
TBA
Offered Summer 1993/94 and Winter 1994/95
Not offered 1994/95

ENG256Y Women and Literary Study
Telephone ID #: 05525063
A discussion of the work of women writers, and the history of women as students, teachers and writers of literature.
Through a variety of texts (fiction, poetry, drama, criticism) we will explore issues such as "women's writing," and women's relationship to language and a literary tradition that has historically been male-dominated. Selections from: Ayesha Bell, Mary Shelley, Kate Chopin, George Eliot, Zora Neale Hurston, Virginia Woolf, Aniisu Nii, Joan Hais, Angela Carter, Sylvia Plath, Lorna Crozier and Caryll Churchill.
Exclusion: ENG2258
Session: Winter Day, Summer Evening
TBA

Offered Summer 1992/93 and Winter and Summer 1993/94

ENG264Y Creative Writing
Telephone ID #: 05526063
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 to be assigned will bear on special questions of technique and form and there will also be discussion of the work of some contemporary writers and visits by writers.
Limited enrolment: 16
Exclusion: HUM280, LIT1030
Prerequisite: Permission of instructor. A short sample of creative writing should be submitted, normally by August 1. For further information, contact Professor R. Brown.
Session: Winter Evening
R. Brown
Not offered 1993/94
Offered 1994/95

ENG292Y Canadian Fiction in English
Telephone ID #: 05525063
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 authors continuing the problems of finding a fictional form and voice for their responses to Canada and of locating themselves in a viable tradition; it focuses on several contemporary writers and each in turn of their traexamples and through close readings of specific novels.
Texts will include Ross, As for Me and My Honor; Callaghan, Steeples; MacDonald, Two Solitudes, Atwood, Surfacing; Odhiambo, Running in the Family.
Exclusion: ENG227
Prerequisite: One full course equivalent in English.
Session: Winter Day
TBA
Not offered 1993/94 or 1994/95

ENG294Y Chaucer
Telephone ID #: 05531063
ENGL374 English Literature of the Late Eighteenth Century
Telephone ID: 0533575
A study of English poetry, prose, and drama from 1745-1800.

ENGL375 Modem Drama
Telephone ID: 0533575
A study of developments in English, American, and European drama in the late nineteenth and twentieth centuries.

ENGL385 English Modern Poetry
Telephone ID: 0533575
An analytical study of poetry from the modern period.

ENGL391 English Literature of the Early Eighteenth Century
Telephone ID: 0533575
A study of English poetry, prose, and drama from 1700-1745.

ENGL397 World Literature
Telephone ID: 0533575
A study of the central issues of literary theory and criticism, focusing on the development of modern literature.

ENGL401 The Theater of Shakespeare
Telephone ID: 0533575
An introduction to Shakespeare's plays.

ENGL466 Dickens
Telephone ID: 0534303
A study of three major novels.

ENGL467 Naipaul and Achebe
Telephone ID: 0534303
A study of some of the major novels and short works by V.S. Naipaul and C. Achebe, reflecting their development as artists with social concerns.

English Literature and Theory
Telephone ID: 0534303
A study of major themes and developments in narrative fiction.

ENGL471 English Poetry and Drama
Telephone ID: 0534303
A study of English poetry and drama from the late eighteenth century to the present.

ENGL473 English Prose and Poetry
Telephone ID: 0534303
A study of English prose and poetry from the late eighteenth century to the present.

ENGL475 English Literature of the Late Eighteenth Century
Telephone ID: 0534303
A study of English poetry, prose, and drama from 1745-1800.

ENGL477 World Literature
Telephone ID: 0534303
A study of the central issues of literary theory and criticism, focusing on the development of modern literature.

ENGL481 The Theater of Shakespeare
Telephone ID: 0534303
An introduction to Shakespeare's plays.

ENGL492 English Modern Poetry
Telephone ID: 0534303
An analytical study of poetry from the modern period.

ENGL497 World Literature
Telephone ID: 0534303
A study of major themes and developments in narrative fiction.

ENGL501 The Theater of Shakespeare
Telephone ID: 0534303
An introduction to Shakespeare's plays.

ENGL507 Achebe and Achebe
Telephone ID: 0534303
A study of some of the major novels and short works by V.S. Naipaul and C. Achebe, reflecting their development as artists with social concerns.
EN345S The Twentieth-Century Novella
Telephone ID #: 05547453
A study of the medium-length fiction of the twentieth century, with emphasis on the novels as a genre, and close reading of works by British, American, and Canadian authors.
Readings will include novels by Conrad, James, Wharton, Faulkner, Katherine Anne Porter, Malcolm Lowry and Mia Gellman. Main texts: The Norton Introduction to the Short Novel (2nd ed.); On Middle Ground (Melville); limited enrolment: 20 Pre-requisites: ENGA01, ENGA02, ENGA11Y and two further full-course equivalents in English.
Session: Winter Day M. Gudipally
EN346PS Award-Winning Fiction in English
Telephone ID #: 05547455
Works of fiction from the last two decades that have received major literary prizes, such as the Nobel and Booker Prizes and the Governor General’s Award.
The course will focus both on a close analysis of the award-winning texts and on an examination of the critical reception before and after the granting of the award, to see what is revealed about standards, trends, and extra-literary influences. Limited Enrolment: 20
Pre-requisites: ENGA01, ENGA02, ENGA11Y, and two further full-course equivalents in English or any of ENGB27, ENGB28, or ENGB32.
Session: Winter Day W. J. Howard
EN346AF Political Drama in the Age of Thackeray
Telephone ID #: 05548433
A survey of a variety of contemporary theatrical plays written during the political climate in Britain.
Pre-requisite: ENGA01, ENGA02, ENGA11Y, and two further full-course equivalents in English.
Session: Winter Day A. Thomaz
EN346SF Early Canadian Women Writers
Telephone ID #: 05548533
A study of neglected prose and prose fiction by women in Canada in the nineteenth and early twentieth centuries. Reading will include works by a few better-known authors—Moody, Brooke and Traill—but will concentrate on three or four of the following less celebrated works: Lebourdon: Autobiographie de Mirecourt; MacClung: Purple Springs; Duncan: A Daughter of Today; Johnson: Legends of Montreal; Backwell: St. Urana’s Convert; Tyndall: Kershaw’s to Hunt Souls. A selection of short stories, sketches and critical readings will help to form a picture of the female writer as well as the woman writer of the pre-modern era in Canada.
Limited enrolment: 20
Pre-requisites: ENGA01, ENGA02, ENGA11Y and two further full-course equivalents in English; or any one of ENGB27, ENGB32, ENGB33, ENGB401.
Session: Winter Day M. Gudipally
EN346FY Senior Essay
Telephone ID #: 05548683
A scholarly project, chosen by the student and supervised by one faculty member. Approval by the faculty in English must normally be obtained by the student before the end of the previous spring term.
The student writes a substantial essay on a literary subject under the supervision of a member of staff. It is the responsibility of the student to locate a supervisor, advance the essay to a publishable form and submit the final version to the Discipline Representative. The following deadlines should be observed: by the last day of the previous spring term; by June 15th for the final version of the project; by August 15th for the final version of the project; by September 15th for the final version of the project.
Pre-requisites: ENGB27, ENGB28, ENGB32.
Session: Winter Day W. J. Howard
EN347AF Political Drama in the Age of Thackeray
Telephone ID #: 05548433
A survey of a variety of contemporary theatrical plays written during the political climate in Britain.
Pre-requisite: ENGA01, ENGA02, ENGA11Y, and two further full-course equivalents in English.
Session: Winter Day A. Thomaz
EN347B English Poetry
Telephone ID #: 05548790
Contemporary Literature in English: Africa and the West Indies
Pre-requisites: ENGA01, ENGA02, ENGA11Y and two further full-course equivalents in English.
Session: Winter Day M. Gudipally
EN348C French Canadian Women Writers
Telephone ID #: 05548533
A study of neglected prose and prose fiction by women in Canada in the nineteenth and early twentieth centuries. Reading will include works by a few better-known authors—Moody, Brooke and Traill—but will concentrate on three or four of the following less celebrated works: Lebourdon: Autobiographie de Mirecourt; MacClung: Purple Springs; Duncan: A Daughter of Today; Johnson: Legends of Montreal; Backwell: St. Urana’s Convert; Tyndall: Kershaw’s to Hunt Souls. A selection of short stories, sketches and critical readings will help to form a picture of the female writer as well as the woman writer of the pre-modern era in Canada.
Limited enrolment: 20
Pre-requisites: ENGA01, ENGA02, ENGA11Y and two further full-course equivalents in English; or any one of ENGB27, ENGB32, ENGB33, ENGB401.
Session: Winter Day M. Gudipally
EN349F Senior Essay
Telephone ID #: 05548683
A scholarly project, chosen by the student and supervised by one faculty member. Approval by the faculty in English must normally be obtained by the student before the end of the previous spring term.
The student writes a substantial essay on a literary subject under the supervision of a member of staff. It is the responsibility of the student to locate a supervisor, advance the essay to a publishable form and submit the final version to the Discipline Representative. The following deadlines should be observed: by the last day of the previous spring term; by June 15th for the final version of the project; by August 15th for the final version of the project.
Pre-requisites: ENGB27, ENGB28, ENGB32.
Session: Winter Day W. J. Howard
EN349F Senior Essay
Telephone ID #: 05548683
A scholarly project, chosen by the student and supervised by one faculty member. Approval by the faculty in English must normally be obtained by the student before the end of the previous spring term.
The student writes a substantial essay on a literary subject under the supervision of a member of staff. It is the responsibility of the student to locate a supervisor, advance the essay to a publishable form and submit the final version to the Discipline Representative. The following deadlines should be observed: by the last day of the previous spring term; by June 15th for the final version of the project; by August 15th for the final version of the project.
Pre-requisites: ENGB27, ENGB28, ENGB32.
Session: Winter Day W. J. Howard
EN351F Early Canadian Women Writers
Telephone ID #: 05548533
A study of neglected prose and prose fiction by women in Canada in the nineteenth and early twentieth centuries. Reading will include works by a few better-known authors—Moody, Brooke and Traill—but will concentrate on three or four of the following less celebrated works: Lebourdon: Autobiographie de Mirecourt; MacClung: Purple Springs; Duncan: A Daughter of Today; Johnson: Legends of Montreal; Backwell: St. Urana’s Convert; Tyndall: Kershaw’s to Hunt Souls. A selection of short stories, sketches and critical readings will help to form a picture of the female writer as well as the woman writer of the pre-modern era in Canada.
Limited enrolment: 20
Pre-requisites: ENGA01, ENGA02, ENGA11Y and two further full-course equivalents in English; or any one of ENGB27, ENGB32, ENGB33, ENGB401.
Session: Winter Day M. Gudipally
EN352F French Canadian Women Writers
Telephone ID #: 05548533
A study of neglected prose and prose fiction by women in Canada in the nineteenth and early twentieth centuries. Reading will include works by a few better-known authors—Moody, Brooke and Traill—but will concentrate on three or four of the following less celebrated works: Lebourdon: Autobiographie de Mirecourt; MacClung: Purple Springs; Duncan: A Daughter of Today; Johnson: Legends of Montreal; Backwell: St. Urana’s Convert; Tyndall: Kershaw’s to Hunt Souls. A selection of short stories, sketches and critical readings will help to form a picture of the female writer as well as the woman writer of the pre-modern era in Canada.
Limited enrolment: 20
Pre-requisites: ENGA01, ENGA02, ENGA11Y and two further full-course equivalents in English; or any one of ENGB27, ENGB32, ENGB33, ENGB401.
Session: Winter Day M. Gudipally
EN353F Early Canadian Women Writers
Telephone ID #: 05548533
A study of neglected prose and prose fiction by women in Canada in the nineteenth and early twentieth centuries. Reading will include works by a few better-known authors—Moody, Brooke and Traill—but will concentrate on three or four of the following less celebrated works: Lebourdon: Autobiographie de Mirecourt; MacClung: Purple Springs; Duncan: A Daughter of Today; Johnson: Legends of Montreal; Backwell: St. Urana’s Convert; Tyndall: Kershaw’s to Hunt Souls. A selection of short stories, sketches and critical readings will help to form a picture of the female writer as well as the woman writer of the pre-modern era in Canada.
Limited enrolment: 20
Pre-requisites: ENGA01, ENGA02, ENGA11Y and two further full-course equivalents in English; or any one of ENGB27, ENGB32, ENGB33, ENGB401.
Session: Winter Day M. Gudipally
Fine Art

Discipline Representative:
Fine Art History: M. Shaw (287-7140)
Fine Art Studio: D. Holman (287-7177)

Fine Art is the field which deals with objects of all sorts that have cultural and aesthetic importance. Because the range of these works is virtually without boundaries, widely divergent approaches come into play in studying them. Increasingly, however, these approaches emphasize the ways that works of art reflect major social and ideological conditions in their cultures.

At Scudder College, Fine Art includes both Art History and Studio, two separate but interconnected fields.

Fine Art History

Because art is perceived through the eye and other senses as well as through the intellect, art history courses commonly present their subjects via slides, films, videos, and direct viewing of art works in galleries and museums and in the cities. Although the course structure reflects a traditional division into time periods, instructors often use new methodologies to explain the 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 courses, these courses offer basic information about art and architecture in all phases of Western culture, and a chance to improve one's perceptual awareness. Prerequisites for all A-level courses in Art History: one full-course equivalent at the B-level or permission of the instructor. Students who enroll in the Major and Specialist Programmes should take the half-course FARA10, FARA11, FARA12 and FARA13 as early as possible in their university careers, and should consult the Supervisor of Studies when arranging their course sequences.

The Department of Fine Art

Undergraduate Handbook summarizes course offerings and resources for Fine Art students on all three University campuses.

Woodesworth College also publishes a pamphlet describing Fine Art courses it offers in a summer programme in Siena, Italy.

Specialist Programme in Fine Art History

Supervisor: R. Siebelhoft

Students must complete twelve full-course equivalents as follows:

1. FARA10; FARA11; FARA12; FARA13
2. Four B-level course equivalents in art history, with at least one half-course each in the areas of classical, medieval, renaissance, baroque and modern art.

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

FARA00Y Foundation Studies in Studio
ANTH50Y Prehistory of North America North of Mexico
ANTH49Y Myth and Symbol
PHIL05Y Philosophy and Art
CSGB13Y Modern Urban Landscapes
HUM100Y Introduction to Cinema
PHIL100Y Philosophy and Art
PSY150Y Perception and Cognition
ANTCS01Y Death and Burial
ANTOS1Y Analysis of Archaeological Material
*Check calendar entries for prerequisites

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

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

Major Programme in Fine Art

Supervisor: R. Siebelhoft

Students complete seven full-course equivalents as follows:

1. FARA10; FARA11; FARA12; FARA13
2. Three full-course equivalents at the B level with at least one half full-course equivalent in each of the following areas:
   - Classical
   - Medieval
   - Renaissance
   - Baroque
   - Modern (1750 to the present)

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

FARA10F Ancient Art and Architecture (ca. 500 B.C. - 300 A.D.)

Telephone ID #: 05211033
The artistic achievements of Greece and Rome.
This course is basic to the study of all subsequent periods of Western Art. It examines Greek architectural design with its concerns for ideal proportion and balance, best exemplified in the well-known columns and temples. Next it deals with Roman technical inventiveness, which among other changes made it possible to create large interior spaces and to introduce new types of urban buildings. The course will also show how Classical painting and sculpture affected later culture, through its depiction of myths and legends, and through technique intended to create for the first time an illusion of the real world.
Exclusion: FAH030, FAH0204

Semi-Session: Winter 1985
M. C. Shaw
Not offered 1993/94
Offered 1994/95

FARA11S Medieval Art

Telephone ID #: 05211155
A survey of European architecture, sculpture, painting, illumination, and minor arts, from the late Roman Empire to the end of the Middle Ages.
The course examines the origins of European artistic traditions in the early Christian, Mediterranean world, how these traditions were influenced by classical, Byzantine, Mudejar and pagan forms, how they developed an entirely new form of artistic expression in the High Middle Ages, and how they led on to the Renaissance. Texts will include E. Kitzinger, Early Medieval Art. Krenkel, Early Christian and Byzantine Architecture. D. von Simson, The Gothic Cathedral, and others.

Exclusion: FAH041
Semi-Session: Winter Evening
T.R.A.
Offered 1993/94 and 1994/95

FARA12F Renaissance and Baroque Art

Telephone ID #: 05211223
A survey of architecture, painting and sculpture from 1400 to 1750.
Semi-Session: Winter Day
T.R.A.
Offered 1993/94 and 1994/95

FARA13S Art after 1750

Telephone ID #: 05211353
A study of European and North American painting, sculpture and architecture from the period of the American and French Revolutions until the present.
Semi-Session: Winter Day
R. Siebelhoft
Offered 1993/94 and 1994/95

FARI15F Renaissance in Italy

Telephone ID #: 06211331
The development of painting in Italy, 1420 to 1520.
The course will focus on three major periods: the birth of an Early Renaissance style in Florence as represented by the work of Masaccio, Angelico, Uccello, Castagno; the dissemination of this style outside Florence during the second half of the fifteenth century through artists such as Piero della Francesca and Mantegna; the rise of a High Renaissance style in Rome, Venice in the works of Leonardo da Vinci, Raphael, Michelangelo, Titian. Textbooks: F. Hartt, History of Italian Renaissance Art: Painting, Sculpture, Architecture; New York, 1969.
Semi-Session: Winter Evening
G. Scarfi
Not offered 1993/94
Offered 1994/95
The course concentrates on the development of painting from Van Eyck's brilliantly colored works to the imaginative subjects of Hieronymus Bosch. The works selected will also illustrate some of the problems faced by students of art, such as the identification of artists on the basis of documents and the analysis of style and subject matter. The text is Ch. Cutler, Northern Painting, New York, 1968 (soft cover edition).

Exclusion: FAB307Y
Session: Winter Evening R. Steinhoff
Not offered 1993/94
Offered 1994/95

FAB307Y Baroque Painting in Southern Europe 1600-1650
Telephone ID: 062221731
A survey of the major pictorial trends in Italy, France and Spain.
The course will first consider the historical factors which engendered the great burst of artistic activity in architecture, sculpture and painting at the beginning of the 17th century, the influence of the Catholic Church, the growth of capitals like Rome and Paris, etc. It will then focus on the three main pictorial trends of the time: the realism of Caravaggio and Velazquez, the classicism of N. Poussin, and the baroque style of P.P. Rubens. These are the development of genre painting (landscape, still life) and the diffusion of a classical art theory which will also be discussed. Textbook: J. B. Held, D. Pounce, Seventeenth and Eighteenth Century Art, New York, 1972.
Session: Winter Day L. Carney
G. Scacchi
Not offered 1993/94
Offered 1994/95

FAB499Y Twentieth-Century Art
Telephone ID: 06224903
A survey of twentieth-century painters and sculptors, primarily European, with an emphasis on their interactions with modern technology.
The course introduces artists like Picasso and Matisse, whose work is now history, as well as contemporary painters and sculptors. The focus throughout will be on the ways that photography, the movies, television and other technologies have changed the nature of art.
Session: Winter Day
L. Carney
Not offered 1993/94
Offered 1994/95

FAB55Y American Painting 1880-1980
Telephone ID: 062255563
"Modern" American painting and the ideas and conditions affecting it.
The course presents artists who brought modern European ideas into U.S. art, from the American Impressionists to the Pop artists. It considers the response of American art to 20th-century life, particularly in New York City with its extremes of poverty and wealth, its huge, multi-ethnic population, and its love of large-scale "progress." It also deals with the reaction against the artists of the New York School after their international success in mid-century.
Exclusions: (FAB354Y, FAH1212)
Session: Winter Day
L. Carney
Not offered 1993/94
Offered 1994/95

FAB63F Recent Canadian Art
Telephone ID: 062256213
An introduction to the work of major Canadian painters and sculptors from the last four decades.
There will be an unusually strong emphasis on films, taped interviews with artists, and, in particular, seeing work at Toronto galleries.
Session: Winter Day
Not offered 1993/94
Offered 1994/95

FAB805Y Wall Painting in Ancient Egypt and the Bronze Age Aegean (3200-1200 B.C.)
Telephone ID: 06220553
A study of paintings in tombs and fresco in two important cultures of ancient civilization.
In ancient Egypt the tombs of rulers and nobility held most of the culture's artistic expression, created to perpetuate life after death through the recreation of scenes of nature and of daily life. These paintings were detailed, informative, colourful and have an exquisitely beautiful quality. In Greece and the Aegean islands, in contrast, paintings decorated palaces and houses. They often glorified nature and were rendered in a lively and impressionistic style. Focusing in themselves, the paintings of these two contemporaneous but different societies provide material for illuminating comparisons and for detecting possible artistic interaction.
Exclusion: (FAB1002, FAB1003)
Prerequisite: One full-course equivalent at the B level or permission of instructor
Session: Winter Day
M. C. Shaw
Not offered 1993/94
Offered 1994/95

FAB93F Gothic Architecture
Telephone ID: 062203653
The development of Gothic architecture from the beginning of the twelfth century to the middle of the thirteenth century. Emphasis will be placed on Notre-Dame in Paris, the cathedrals of Chartres, Reims and Amiens, and a select number of monuments in England. A discussion of the sculptural programmes of the said churches will be included.
Exclusion: FAB1268
Prerequisite: One full-course equivalent at the B level or permission of instructor
Session: Winter Day
R. Steinhoff
Not offered 1993/94
Offered 1994/95

FAC138S Seminar in Twentieth-Century Art
Telephone ID: 06221853
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, each seminar member will research a topic and present it.
Session: Winter Evening
L. Carney
Not offered 1993/94
Offered 1994/95

FAB1002/3
FAB1003 Supervised Reading in Classical Art
Exclusion: FAH480, 481
FAB1004/5 Supervised Reading in Medieval Art
Exclusion: FAH482, 483
FAB1006/7 Supervised Reading in Renaissance and Baroque Art
Exclusion: FAH484, 485, 486, 487
FAB1008/9 Supervised Reading in Modern Art
Exclusion: FAH488, 489
A course offering the opportunity for advanced investigation of an area of interest to students who are nearing completion of art history programmes and who have already acquired research skills sufficient for independent work. Students must locate a willing supervisor, and topics must be identified and approved, by the end of the previous term. A reading knowledge of a second language is recommended.
Prerequisite: One C-level full-course equivalent in art history.
Session: Winter Day
Members of Faculty
Fine Art Studio

The Specialist Programme is designed for students who are considering art as a profession and/or who may want to continue to the graduate level. It also prepares students for work in the areas of art gallery administration, curating, art councils, and art college teaching.

Specialist Programme in Fine Art Studio

Supervisor: Don Holman (287-7177)

Students must complete: fourteen and one half-full-course equivalents; ten and one half full-course equivalents in studio; two full-course equivalents in art history which must include FARA13 and two additional full-course equivalents in core disciplines. The list of recommended courses is available from the Programme Supervisor. The courses in studio must include:

1. FARA497S, FARA497Y
2. FARA771S, FARA771Y
3. FARA757S, FARA757Y
4. FARA822S, FARA822Y
5. FARA865S

Three full-course equivalents from the remaining B-level, and/or C-level chosen in consultation with the supervisor.

Two D-level full-course equivalents.

The Major Programme in Studio will give the student a full and broad exposure to both the various processes of art-making and to recent developments in art criticism. The programme provides some preparation for teaching at the high school or elementary level.

Major Programme in Fine Art Studio

Supervisor: Don Holman (287-7177)

Students must complete seven full-course equivalents as follows:

1. FARA497S, FARA497Y
2. FARA53S
3. FARA757S*
4. FARA771S*
5. FARA822S
6. FARA865S
7. Two and one-half additional full-course equivalents chosen from the D-level.

* Students should check these courses for prerequisites.

A recommended approach to our programmes would be:

MAJOR PROGRAMME

First Year:
FARA09Y Foundation Studies in Studio
FARA915S
Second Year:
FARA757S Introduction to Drawing
FARA771S Graphic Design
Third Year:
FARA245S Introduction to Ceramics
FARA245S Ceramics I
FARA245S Ceramics II

SPECIALIST PROGRAMME

First Year:
FARA09Y Foundation Studies in Studio
FARA915S
Second Year:
FARA757S Drawing
FARA771S Graphic Design
Third Year:
FARA245S Introduction to Ceramics
FARA245S Ceramics I
FARA245S Ceramics II

FARA90Y Foundation Studies in Studio

Telephone: T/D # 06215065
An introduction to the various processes of art-making: drawing, painting, sculpture, printmaking, installation work, performance, and/or video.

This course is intended to prepare the student for further study in Studio. A basic foundation of visual understanding will be built through the personal expression of a number of processes, concepts, and materials. Students will discover, through assigned work and discussions, the many ways contemporary art is made. They will be required to explore a number of these processes through assignments and will also be expected to give an oral presentation on a contemporary artist.

Enrollment: 20 per section
Exclusion: PAST10

NOTE: Beginning in 1991/92, the Foundation for FARA90 will be an OAC in Visual Art or permission of instructor following a positive evaluation of a portfolio.

Session: Winter Day

Offered: 1993/94 and 1994/95

FARA915S Why is it Art?

An introduction to the basic ideas behind recent art, how they developed, and why they changed.
"I don't know anything about art but I know what I like." Why do we feel uncomfortable when confronted with contemporary art? What are we supposed to be thinking and why? This course aims to develop a broad basic knowledge of the
students will work in the classroom and with color media to produce a number of experimental media. Students will learn how to expand their personal understanding of the medium 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, which the student will work from the figure as well as from works, will be discussed in class and with, with a complete sketchbook, make up the final portfolio for grading. Limited enrollment: 20
Exclusion: FAS238
Prerequisite: FARA90
Session: Winter Day
D. Holman
Offered 1993/94 and 1994/95
FARR71F Photography Issues in Printmaking
Telephones: # 06227233
An exploration of traditional and more experimental processes of printmaking. Students will investigate the vast possibilities inherent in printmaking through assigned work which will be made in class and individually with the instructor. They will also be required to give an oral presentation on a contemporary artist and write two papers on contemporary art. Limited enrollment: 20
Exclusion: FARA90
Prerequisites: FARA93
Session: Winter Day
D. Holman
Offered 1993/94 and 1994/95
FARR71Y Photographing the Visible Arts
Telephones: # 06227283
An introduction to non-traditional photography and to the issues arising from the use of photography in the 20th century. This course explores the impact of still photography on the process but also the conceptualization of art-making. The student is introduced, through lectures and demonstrations, to the various ways contemporary artists use photography in their work. Individual and group critiques will be held to discuss assigned work.
French

Discipline Representative: L. E. Doucet (287-7138)

Supervisor of Studies: J. Curtis (287-7137)

Undergraduate studies in French normally begin with FREN 101, Language Practice I, which serves to consolidate previous language experience. This course is also the prerequisite for all advanced language, literature, and linguistic courses in our programme of French studies.

The courses offered are designed primarily for students with OAC French (or Grade 13 French) who wish to continue their study of the language and literature of French Canada and France. Those students who have significant "immersion", or "enriched" high school experience should consult the faculty member responsible for FREN 110 or FREN 111 concerning the appropriate language practice course for their purposes. Students without OAC French or equivalent are urged to obtain credit for FREN 110 on a "study elsewhere" basis, for example, by attending a summer immersion programme. Further information is available from our Supervisor of Study Elsewhere, Professor W. J. Bascomb.

Once FREN 110 (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 Supervisors and members of the French staff for more detailed advice about course selection and for information about our Specialist and Major Programmes.

Areas of study in French include:

- **Practical language studies**
  - i) for general purposes: AU1, BU1, CO1-C05
  - ii) for special purposes: translation: BU8, BU9, BU18
  - business: BU8, BU18

- **Literature**
  Courses in literature, both of France and French Canada, cover a range of periods and genres. Some literary study is a requirement in each of the Programmes offered by the Discipline.

- **Linguistics**
  Courses in linguistics may be descriptive as in R23, BU8, BU9, or historical as in C24 (France), or C24 (Canada).

- **Civilization**
  Courses in the civilization and culture of French Canada and of France cover all periods and provide opportunities to intensify understanding of the settings within which the literatures and the language of these communities have developed. Relevant courses include BU22, BU23, BU27, and BU28. 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 in French.

The College's "Study Elsewhere Programmes" offers ideal opportunities for French students to fulfill some of their programme requirements while studying French elsewhere. For example, the University of Toronto sponsors programmes at Laval (Quebec) and Aix-en-Provence (France). If interested, please consult the Supervisor of Study Elsewhere. For further information about the Study Elsewhere Programme and Letters of Permission, refer to page 221.

Normally, a student may not take an A-level French course at the same time as or after a B-level French course.

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

The French Discipline offers five 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; and, in co-operation with the Faculty of Education, a Specialist Programme: Educators of Teachers of French. For information on these other programmes, see pages 130 - 132.

Specialist Programme in French Supervisor: J. Curtis (287-7137)

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

1. the sequence FREN 110, FREN 111, and one full-course equivalent from the sequence FREN 210-C05 (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: FREN 215T, FREN 247F, FREN 248Y, FREN 299Y

3. four 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)

5. two full-course equivalents outside French but in 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 FREN 210-C05 and immersion 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 FREN 210 or FREN 247F 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 FREA10 and FREA50
2. FRE817H, FRE818H, FRE830H, FRE831H, FRE832H, FRE833H

Specialist Programme: Education of Teachers of French

*Please Note: this new programme will be offered beginning in 1993/94.

This is a four year programme appropriate to future teachers of French at the pre-primary/junior, junior/intermediate and intermediate/intermediate levels. It will include practical placements consisting of a half-day per week work experience in the elementary or secondary system in Years 3 and 4. The programme is a cooperative venture undertaken by the Faculty of Education and by the Division of Humanities to provide future teachers of French with a teacher education that addresses both context and methodology, and in particular to address the shortage of teachers of French.

Major Programme in French Language and Literature

Supervisor: J. Curtis (287-7137)
Students should complete seven full-course equivalents, including:
1. FREA10Y, FREA20Y (except where substitution of other French courses is permitted for students with special proficiency in French)
2. one of the following courses: FRE825Y, FRE826Y, FRE845Y, FRE846Y, FRE847Y, FRE848Y, FRE849Y, FRE8450
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 FREA50 or FRE50 early in their programme of studies.

The following may not count toward a Major Programme in French Language and Literature:

1. any A-level French course, with the exception of FREA10 and FREA50
2. FRE817H, FRE818H, FRE830H, FRE831H

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.

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

Equivalent courses from the discipline's offerings will be substituted. Students are strongly advised to discuss their programme as soon as possible with the Supervisor.

See also Specialist Programme in Modern Languages (listed under Language Studies).

Major Programme in French Language

Supervisor: J. Curtis (287-7137)

Students should complete seven full-course equivalents, including:
1. FREA10Y, FREA20Y, and one full-course equivalent from the following: FRE825Y, FRE826Y, FRE845Y, FRE846Y, FRE847Y, FRE848Y, FRE849Y, FRE8450

Students may include in their programme a maximum of one supervised reading course.

The following may count toward a Major Programme in French Language:

1. FREA10Y, FREA20Y, and one full-course equivalent from the following: FRE825Y, FRE826Y, FRE845Y, FRE846Y, FRE847Y, FRE848Y, FRE849Y, FRE8450

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 Language

Supervisor: J. Curtis (287-7137)

Students should complete four full-course equivalents, including:
1. FREA10Y
2. FREA20Y
3. Plus two further full-course equivalent French courses at least one of which must be at the C-level excluding FRE822H, FRE823H.

FREA10Y Language Practice I

Telephone ID: # 06611063

Endorsement and development of the language skills—understanding, reading, writing, and speaking—necessary for basic levels of French.

The course consists of a grammar review with written and oral exercises, reading and discussion of a variety of texts representing different francophone cultures including Quebec, and various exercises and class instruction may choose to devote. The course meets three times a week and, in addition, will do a fourth hour of speaking and listening in the Language Lab. This course is a prerequisite for all B-level courses in the French program at Scarborough College except FREA90H.

For students planning to specialize in French, FREA90Y is recommended as a companion course.

Exclusion: (FREA90H, native or near-native proficiency in French; FRE91H, 1711
Pre-requisite: D717 French or Grade 13 French or FREA16 or equivalent
Session: Winter Day, Winter Evening
K. Keirans Staff
Offered 1992/93 and 1993/94

FREA90Y Introduction to Francophone Literature

Telephone ID: # 06615063

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

FREA90Y will introduce students to the historical and literary traditions of French culture with an emphasis on the major works of French authors and on the French-speaking world.

Students are encouraged to develop their critical skills and their ability to analyze literature and to develop their own interpretation of the works.

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.

FREA80YY Practical Translation

Telephone ID: # 06614053

Translation practice from French to English and French to English.

Translation of works of literature, business, political, legal, science, and advertising will be translated as well as technical texts in the areas of type of language and style of expression. Class time is devoted to increasing the student's proficiency. Evaluation will be based on class participation, written and oral assignments, and an examination.

Exclusion: FREA10 or equivalent
Session: Winter Day

S. Miller and F. Magnier-Moynihi
Offered 1992/93 and 1993/94

FRE80BY Language Practice II

Telephone ID: # 06612063

A continuation of FRE80Y.

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

Exclusion: (FREA11H, native proficiency in French; FRE91H, 271)
Pre-requisite: FREA90Y (FREA90Y or equivalent)
Session: Winter Day, Winter Evening
K. Keirans Staff
Offered 1992/93 and 1993/94

FRE80BY Commercial French

Telephone ID: # 06612163

The French language in a commercial or economic context.

This course is of interest to students in Business, Accounting, Computer Science, and Economics Majors, and to all who wish to improve and develop skills in French. This course is also designed to provide students with the basic elements of communication necessary to function in the Canadian francophone business environment. The course will consist of theoretical and practical sessions. Class meetings will be devoted, among other things, to correspondence writing and to exercises that include the vocabulary and structures involved in the language of business.

This course may not count towards a Specialist Programme in French, or the Major Programme in French Language and Literature.

Exclusion: FRE220Y
Pre-requisite: FREA10 (FREA90Y or permission of the instructor)
Session: Winter Day

W. J. Benoit and F. Magnier-Moynih
Offered 1992/93 and 1993/94
FREN125F The Society and Culture of French Canada I
Telephone ID #: 0662255
A study of the historical, social and cultural development of French Canadian society, from its origins to 1990.
Lecturers will focus on factors which provide the necessary background for an understanding of contemporary French Canadian society. As such this course is a pre-requisite for FREN225S and students are urged to plan taking both of these courses in succession.
Exclusion: FREN480
Prerequisite: FREN100Y (005) or equivalent.
Session: Winter Day
L. Mignault
Not offered 1993/94

FREN225S The Society and Culture of French Canada II
Telephone ID #: 0662255
Contemporary French Canadian society with special emphasis on Quebec since the death of Maurice Duplessis. Using the insights gained from an earlier study of French Canadian society (FREN125F), this course focuses on the identity crisis of the 1960s; the rise of theois nationalist movements, the "Révolution tranquille," and the creative output of the 60's and 70's. Special attention will be given to issues related to linguistic and cultural survival, language policies and their impact on federal-provincial relations. FREN225S is strongly recommended as preparation for this course.
Prerequisite: FREN125F (005) or equivalent.
Session: Winter Day
L. Mignault
Not offered 1993/94

FREN484Y Theoretical and Practical French Pronunciation
Telephone ID #: 0662483
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: P. Léon, Prononciation du français standard.
Limited enrolment per section: 20
Exclusion: FREN277, 376
Prerequisite: FREN100Y (FREN225F) or equivalent.

FREN60F The 20th-Century French Novel I: 1900 - 1940
Telephone ID #: 0662033
A study of representative French novelists from 1900 to the 1940s. Recommended companion course: FREN310Y.
This course will take in the work of several of the greatest French novelists from 1900 to the 1940s. Recommended companion course: FREN310Y.
A study of the development of French comic theatre through the 17th and 18th centuries. Recommended companion course: FREN310E.
Exclusion: FREN100Y
Prerequisite: FREN100 (FREN200) or equivalent.
Session: Winter Day
C. Bertrand-Jennings
Offered 1993/94 and 1993/94

FREN51F The Classical Age: Comedy Telephone ID #: 0662253
A study of the development of French comic theatre through the 17th and 18th centuries. Recommended companion course: FREN310E.
Course material will be presented through informal lectures and group discussion.
Exclusion: FREN229, FREN481, FREN220, FREN356.
Prerequisite: FREN100 (FREN200) or FREN356.
Compulsory: FREN50 (FREN356) or FREN50 permission of instructor.
Session: Winter Day
J. Curtis
Not offered 1993/94
Offered 1994/95

FREN52S The Classical Age: Tragedy and Drama Telephone ID #: 0662253
A study of the tragic and serious dramatic genres in France during the 17th and 18th centuries. Recommended companion course: FREN310E.
The course is largely concerned with the achievements of Corneille and Racine, France's most famous "experts of tragedy." It also looks at the work of successors such as Voltaire, whose adaptations of the tragic form pave the way for modern-classical drama and the modern theatre. Course material will be presented through informal lectures and group discussions.
Exclusion: FREN229, FREN481, FREN220, FREN356.
Prerequisite: FREN100 (FREN200) or equivalent.
Compulsory: FREN50 (FREN356) or FREN50 permission of instructor.
Session: Winter Day
J. Curtis
Not offered 1993/94
Offered 1994/95

FREN61F Women's Consciousness in French Literature Telephone ID #: 0662233
A study of the history of women's roles in French literature and to analyze the concept of literature as experienced and described by prominent women authors from the sixteenth century to the present.
This course will attempt to trace the history of women's roles in French literature and to analyze the concept of literature as experienced and described by prominent women authors from the sixteenth century to the present.
Exclusion: FREN61F
Prerequisite: FREN100 (FREN200) or permission of instructor.
Session: Winter Day
J. Curtis
Not offered 1993/94

FREN61S The 20th-Century French Novel II: 1940 - 1979 Telephone ID #: 0662233
A study of representative French novelists from 1940 to 1979. Recommended companion course: FREN61F.
Following a general historical and aesthetic introduction to the course, works by representative novelists will be studied in their own right and in relation to the society which produced them. Classes, which comprise both lectures and seminars-discussions, will be conducted in French.
Exclusion: FREN481, FREN100, FREN426
Prerequisite: FREN100 (FREN200) or equivalent.
Compulsory: FREN50 (FREN356) or FREN50 permission of instructor.
Session: Winter Day
S. Melzer
Not offered 1993/94
Offered 1994/95

FREN62S Women and Literature in France Telephone ID #: 0662233
A study of the history of women's roles in French literature and to analyze the concept of literature as experienced and described by prominent women authors from the sixteenth century to the present.
Exclusion: FREN61F
Prerequisite: FREN100 (FREN200) or permission of instructor.
Session: Winter Day
C. Bertrand-Jennings
Not offered 1993/94
May be offered 1994/95

FREN63S Advanced Written French for General Purposes Telephone ID #: 0662033
The purpose of this course is to improve students' ability to write effectively and elegantly in French.
Courses written by native French speakers as models and productions of students for the development of problem-solving strategies, students familiarize themselves with a 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 stylistic manner.
General purpose letter and essay writing are the focus of this course.
Exclusions: FREN610Y, FREN180, FREN50
Prerequisite: FREN180 or equivalent.
Session: Winter Day
L. Mignault
Offered 1993/94 and 1994/95

FREN635S Advanced Written French for Professional Purposes Telephone ID #: 0662053
A course designed for students who are preparing to use written French for specific job-related purposes: e.g., journalism, essays, and reports in fields related to social and political sciences.
Using models produced by native speakers, students seek to develop
familiarity with the use of the basic styles and vocabulary appropriate for each type of writing. Attention will be given to students’ individual needs.

Exclusions: FRENCH (CHY), FREN80, FREN93

Prerequisite: FREN90 or equivalent

Session: Winter Day

L. Mignault

Offered 1993/94 and 1994/95

FREN454 Oral Communication for General Purposes

Telephone ID #: 06630453

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 authentic documents and on clarity of expression, correct delivery, ability to speak from memory notes and to improvise. Public inquiry, media reporting and mock trial situations are techniques used to practice the development of these skills.

Exclusions: FRENCH (CHY), FREN41, FREN61

Prerequisite: Permission of instructor (FREN710)

Session: Winter Day

L. Mignault

Offered 1993/94 and 1994/95

FREN455 Oral Communication for Specific Purposes

Telephone ID #: 06630553

A course for students who must be able to use oral French for specific job-related purposes, e.g., journalism and subjects related to various fields of the social and political sciences. The focus is on comprehension of authentic documents and on clarity of expression, correct delivery, ability to speak from memory notes and to improvise. Public inquiry, media reporting and mock trial situations are techniques used to practice the development of these skills.

Exclusions: FRENCH (CHY), FREN61, FREN93

Prerequisite: Permission of instructor (FREN710)

Session: Winter Day

L. Mignault

Offered 1993/94 and 1994/95

FREN50 Comprehensive Stylistics

Telephone ID #: 06630863

A comprehensive study of expression in English and French, including practice in translating and analysis of selected examples of the translator’s art. Students will become familiar with basic terminology and concepts of comprehensive stylistics through assigned readings and exercises. This approach has the benefit of encouraging close analysis of subtleties of expression in French while selecting the advanced student to the pitfalls which must be avoided by those who work constantly with two related languages.

Exclusions: FREN375

Prerequisites: FREN40 and FREN50

Session: Winter Day

J. Cote

Offered 1993/94

FREN5183 French Theatre in the 20th Century

Telephone ID #: 06630253

A study of the major trends in French drama from the turn of the century to the present, including an examination of the philosophical concept of the “absurd” and its influence on modern French theatre. Six major plays by representative dramatists will be analyzed to illustrate the development of contemporary French theatre. Classes will be conducted as seminar-discussions in French, supplemented by some lectures.

Exclusions: FREN80, FREN51, FREN58

Prerequisites: One B-level course in the group FREN10 / FREN18, except (FREN17), FREN18

Session: Winter Day

J. Kirshen

Offered 1993/94

FREN528 The Literature of French Canada II: Special Topics

Telephone ID #: 06633853

Literature and politics in contemporary Quebec.

The political dimension of literary forms in Quebec, from the advent of the Quiet Revolution to the late 1980s. Seminar discussions, with various options for individual evaluation of students. Texts will include novels by J. Roy, L. C. More, C. Carrier: plays by M. Tremblay, P. Loranger and M. Lefebvre: poetry by G. Mauro, M. Leduc and A. Godin.

Prerequisite: One B-level course in group 010/881, except (B17), B18, or permission of instructor

Session: Winter Day

L. Mignault

Offered 1993/94 and 1994/95
Geography

**Discipline Representative:** M.F. Bunce (287-7313)

The Geography curriculum offers courses dealing with the processes, problems and management of physical and human environments. There are Major and Specialist Programs, and courses in Geography are listed as options in Canadian Studies, Women's Studies, and in International Development Studies, Terrain and Earth Science and Economics. Specific courses, such as those on Soil Management, should be of general interest to students specializing in Physical and Life Sciences, while those on Urban Geography and Rural Geography may appeal to students specializing in other disciplines in Social Sciences.

Geography Programs can be taken for either a B.A. or a B.Sc. degree depending on the courses selected. In general courses in human geography qualify for a B.A. and those in physical geography lead to a B.Sc.; courses which count towards a B.Sc. degree are GGRB03, GGRD09, GGRB15*, GGRB19, GGRB24, GGRB25, GGRD01, GGRB33, GGRD05*, GORC23.

**Major Program in Geography**

**Supervisor:** A. Price (473-7679)

The requirements for this Program are as follows:
1. GGRB24 or GGRB25
2. At least two full-course equivalents in Geography at the C-level or D-level, other than GGRD01
3. Two full-course equivalents in disciplines other than Geography to be agreed on in consultation with the Supervisor.

**Note:** GGRD01 will not be offered in 1992-93. There are several equivalent courses which will be accepted as satisfying this program requirement, including STAB22/F5 and the courses listed in the Calendar as Exclusions to that.

**Specialist Program in Geography**

**Supervisor:** A. Price (287-7327)

The requirements for this Programme are as follows:
1. GGRB04/F5 and GGRB05/F5
2. GGRB13/F5, or STAB22/F5 or Equivalent*  
3. GGRD01
4. At least three full-course equivalents in Geography at the C-level or D-level, other than GGRD01
5. Two full-course equivalents in disciplines other than Geography to be agreed on in consultation with the Supervisor.

**Note:** GGRB15 will not be offered in 1992-93. There are several equivalent courses which will be accepted as satisfying this program requirement, including STAB22/F5 and the courses listed in the Calendar as Exclusions to that.

**Corequisite:** GGRD05 or GGRD10 or permission of instructor. Offered 1993/94.

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processes, climate differentiation; the hydrologic cycle and its role in water resource management; principles of soil development and nutrient cycling; processes of plant colonization and community development. It will include case studies of natural resource management and mismanagement in developing countries. Students will be encouraged to develop specific regional interests in course tutorials.

Session: Winter Day
A. Price/TRA

GGBR03Y Climatology
Telephone ID: 06921263
A scientific analysis of Earth's climate through study of the governing physical and dynamical controls.

The first term focuses on basic elements of Earth's meteorology. Major topics include: atmospheric composition, nature and significance of atmospheric radiation, physical controls on surface and global energy budgets, atmospheric moisture and cloud development, and atmospheric motion, including air masses and front concepts and upper air circulation.

The second term examines Earth's major climates. Topics include contrasts and differences of mid-latitude temperate climates, and Asian/African monsoon. The remainder of the course is devoted to an examination of the nature and theories of climatic change. Two hours of lectures per week plus an additional 1 laboratory hour is needed.

Exclusion: GEO 230, GEO 312

Prerequisite: GEOA05 or equivalent. A 2.0 level science course with permission of instructor

Session: Winter Day

TBA

GGBR05Y Urban Geography
Telephone ID: 06923553
An introduction to the geography of the North American cities, emphasizing the importance of historical development to our understanding of the present. The first half of the course looks at cities as reflections of, and influences upon, North American society. The second half deals with the internal organization of the city, with the operation of the land market, patterns of residential, commercial and industrial land use, with planning and urban politics.

Examples will be drawn in part from

Canadian cities.

Exclusion: GGBR124

Prerequisite: GGBA04 or an A-level course in the Social Sciences or the Humanities.

Session: Winter Day
R. England

GGBR09Y Hydrology, Land Use and Water Quality
Telephone ID: 06920933
Particular land uses form very specific hydrologic, geomorphic and chemical interrelations and these are studied in the context of the ground surface. Any change in land use necessarily changes the water balance at the surface, which modifies the other surface processes, usually to the disadvantage of soil and water quality both on and off the site. In the course, the fundamental controls on the motion of water through vegetation canopies and soil are outlined, and specific examples of changes in water quantity caused by changing land use are analyzed.

Exemptions will be placed on the hydrologic consequences of land use change, but attention will also be given to the chemical changes in water and soil which result from changes in near-surface water fluxes.

Teaching methods: 2 hour lecture, 1 hour lab per week.

Prerequisite: IDSDB04 or GEOA05

Session: Winter Day
A. Price

GGRB13Y Modern Urban Landscapes
Telephone ID: 06921363
An examination of the appearance of modern cities, especially in terms of architecture, urban form, and planning and with reference to two questions: How have cities grown as they have? What can be learned about modern societies by studying their visual environments? The full-term will be devoted chiefly to an historical survey of architectural styles and town planning approaches from 1800 to the present; the spring term emphasizes the critical evaluation and interpretation of urban landscapes.

Session: Winter Day
E.C. Belgh

GGRB17Y Rural Geography
Telephone ID: 06921763
The geography of rural environments in the context of an urbanizing world. Topics will include concepts of rurality, the evolution, elements and patterns of rural settlement, the role of agriculture and land use, problems of contemporary change in rural society, economy and landscape, the rural urban fringe, the recreational use of rural areas and rural policy problems. The aim is to acquaint students with some of the recent literature in the subject, and to introduce them to the methodologies and conceptual approaches to studying rural areas.

Prerequisite: GGBA04 or an A-level course in the Social Sciences or the Humanities.

Session: Winter Day, Summer Evening
M. Bacon

GGRB19Y General Geomorphology
Telephone ID: 06921983
Processes of surficial material development and landform evolution; weathering processes and soil development; alluvial form and process; principles of fluvial geomorphology and drainage system analysis; introduction to coastal geomorphology; processes of landform evolution in arid regions; the geomorphic role of climatic changes; Pleistocene and present day glaciology; geomorphology as an applied geomorphological field. Field excursions, laboratories, lectures.

Exclusion: GGBR20

Prerequisite: GEOA04 or EGLA04, or IDSDB02 with permission of instructor

Session: Winter Day
B. Greenwood

GGRB27F Location and Spatial Development
Telephone ID: 06927333
Application of competitive location theory to explain economic landscapes. Topics include occupational rents and spatial equilibrium, trade flows and spatial price equilibrium, gravity models and spatial pricing policies, location of a firm with mobile resources, and trade theory and regional specialization. Three hours of lectures per week.

Exclusion: GGRB20 (IDSDB07)

Prerequisite: ECOA01

Session: Winter Day
J. Miran

GGRB35F Introduction to Soil Science
Telephone ID: 06925353
Introduction to the processes of pedogenesis and the development of diverse soil profiles, their field relationships and their response to changing environmental conditions. The course will examine the evolution of the fundamental soil properties of influence in soil management, and will provide an introduction to techniques of soil evaluation in the field and analysis in the laboratory and the basic principles of soil classification. Two hours of lectures and one hour of lab each week. Limited enrollment: 30

Exclusion: GGBR27

Prerequisite: A-level course in environmental sciences, or IDSDB02

Session: Winter Day
TBA

GGRCS4S Urban Residential Geography
Telephone ID: 06930403
Macro and micro perspectives on urban residential geography are presented in this course with an emphasis on North American Cities. At the macro level, topics include the search and location behaviour of individuals and families as consumers of housing, and suppliers of labour and domestic production. At the macro level, topics include commuting, social ties, neighbourhood segregation, structure and changes in the social and physical structure of neighbourhoods. In light of these the course will examine the changing role of land use planning and public policy. Three hours of lectures per week.

Prerequisite: GGRB05 and GGRB31 or equivalent

Session: Winter Day
J. Miran

GGRCS6S Women and the City
Telephone ID: 06930503
This course will look at the way gender roles are reflected in and reproduced by the geography of the city. Topics will include the separation of home and "work", the nature of the social environment, the production of cities, the nature of the social environment, the production of cities, and their defense. The problems of creating an environment that provides equal opportunities for women and men will be examined.

Prerequisite: GEOA05 or WSTA01 (IDSDB01)

Session: Winter Day
S. England

GGRCS1F Urban Political Geography
Telephone ID: 06911333
A geographical approach to the politics of contemporary cities. Emphasis will be placed on North American, and especially Canadian cities, since 1945. Lectures will review recent trends in political activity, the causes of these trends and their social consequences. Topics to be discussed will include the nature and organization of the state, the political powers of the property industry, of parties, of business, labour, and community based organizations; reform
movements. Throughout, emphasis will be placed on the plants by which the geography of the cities and local government have shaped, and been shaped by, urban political activity.
Exclusion: GGR219, GGR319
Prerequisite: GGR505
Session: Winter Day
R. England
GGR218S Urban Transportation Policy Analysis Telephone ID: 06991853
This course examines current problems in urban transportation planning, using policy analysis. Topics include setting of community goals, economic and social cost-benefit analysis, evaluation of redistributive impacts, impacts of transport projects on land use, mass transit subsidies, and regulations/deregulation. The course examines insights gained from contemporary empirical research. Three hours of lectures per week
Exclusion: GGR124
Prerequisite: GGR213H or equivalent and GGR505 or GGR227
Session: Winter Day
J. Miron
GGR229F Issues in Rural Development Telephone ID: 06992293
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 environmental and social theories of rural development.
Prerequisite: One of GGR201, GGR217, IDS801, IDS802
Session: Winter Evening
M. Bunce
GGR224F Quantitative Research in Geographics Telephone ID: 06992433
A course in data analysis that introduces students to the use of quantitative methods in modern geographic research. The course covers Monte Carlo simulation, smoothing, clustering, multiple regression, spectral analysis, trend surfaces, discriminant functions, and logit models. An interactive and non-rigorous approach highlights problems and potential statistical approaches, using advanced computer programs for data analysis. Prior exposure to elementary statistics or data analysis is assumed. Three hours of lectures per week.
Prerequisite: GGR213H or equivalent
Session: Winter Day
J. Miron
GGR265 Coastal Geomorphology Telephone ID: 06992653
The mechanics of coastal processes leading to morphological change in the coastal zone will provide the focus for studying the evolution of Canada's present shorelands, especially those of the Great Lakes. Field and laboratory studies will complement lectures on the theoretical aspects of sediment erosion, transport and deposition in the coastal zone. The course should be of interest to students in limology, geology and marine studies.
Prerequisite: GGR219; courses in science and quantitative methods (e.g. GGR331) will be useful.
Session: Winter Day
B. Greenwood
GGR295 Problems in Modern Agricultural Land Use Telephone ID: 06992953
Examination of the land use problems created by rapid changes in modern agriculture. Emphasis will be placed on the impact of high technology, corporate economics and urbanization upon agricultural land use and landscapes. The course is thematic in approach and will include such topics as change in land tenure, chemical applications in farming, agriculture, fragmentation, land enclosure, and conversion, urbanization of farmland. One two-hour seminar each week plus individual consultation.
Prerequisite: One of GGR217, GGR201, IDS801, IDS802
Session: Winter Evening
M. Bunce
GGR238F Hydrology: Estimation and Forecasting Telephone ID: 06992383
The fundamental concepts on the flow of water over and through natural systems are analyzed, and the way in which such processes are conventionally modeled is described. These conventional models are applied to the management of water resources, in particular the estimation of water flows at the drainage basin scale. The course objectives include a better understanding of how water moves through natural systems, the ways in which human activity changes hydrologic process, and the impact of modeling which is used in planning exercises. Two hours of lectures and one hour of labs each week.
Exclusion: GGR285
Prerequisite: One of GGR205, GGR290, GGR10, IDS302
Session: Winter Day
A. Price
GGR395S Soil Management in Temperate Regions Telephone ID: 06993953
The utilization of soil resources in Canada and western Europe, with particular emphasis on environmental impact and soil degradation. The course will focus on the fundamental processes of soil degradation and examine soil conservation techniques and strategies with particular attention to critical areas in Canada such as nutrient cycling and the management of soil fertility, soil erosion and conservation, soil contamination and sealing, problems of drainage and secondary salinization, and the management of Arctic and Alpine soils. The course will involve regular laboratory projects in the Soil Erosion Research Laboratory. Two hours of lectures and two hours of labs each week.
Limited enrolment: 20
Exclusion: GGR232
Prerequisite: GGR235
Session: Winter Day
TBA
GGR411F Current Topics in Human Geography Telephone ID: 06994113
Examination and discussion of current trends and issues in human geography, with particular emphasis on recent developments in concepts and methods. Specific content will vary from year to year. Seminar format with active student participation. Two hours each week.
Limited enrolment: 20
Prerequisite: GGR213H and one 2-level full-course equivalent in Physical Geography and permission of instructor.
Session: Winter Day
R. Merino
GGR422F Current Topics in Physical Geography Telephone ID: 06994223
Examination and discussion of current trends and issues in physical geography, with particular emphasis on recent developments in concepts and methods. Specific content will vary from year to year. Seminar format with active student participation. Two hours each week.
Limited enrolment: 20
Prerequisite: GGR213H and one 2-level full-course equivalent in Physical Geography and permission of instructor.
Session: Winter Day
R. Merino
GGR01Y Supervised Research Telephone ID: 06994013
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, value 20 per cent of final grade; 2) a 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 final report will be evaluated by at least two members of faculty and the student may be asked to defend it at an oral examination. Exclusion: GGR01U
Prerequisite: Any fifteen full-course equivalents including at least five equivalents in Geography and GGR211 or equivalent.
Session: Winter Day
GGR028 Environmental Philosophies Telephone ID: 06994028
A critical review of different attitudes and approaches to environments, with special attention to their assumptions and practical implications. Issues discussed will include the meaning of conservation, environmental management and sustainable development; the forms of technological control of the environment; environmental ethics; deep ecology; and the manner of interaction between social concerns: global environmental management.
Exclusion: GGR312
Prerequisite: Any 10 full-course equivalents beyond 1st year level, GGR201, IDS801, IDS802
Session: Winter Day
R. Merino
Geology

Discipline Representative: K. Howard

GEOLOGY: "The scientific study of planet earth, its origins, structure and history, and the nature of the processes which have given rise to its present state."

Geology 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, bike and coastal erosion, disposal of household, industrial and radioactive wastes can often be attributed to an insufficient understanding of near-surface geology and geological processes.

This growing concern with our environment has led to the development of a specialist programme in geology on the Scarborough Campus called Terrain and Environmental Earth Sciences (TEES). The TEES programme provides students with a good background in all the fundamental aspects of geology through the study of earth materials at or near the surface, and the processes—chemical, sedimentary, hydrogeological—that shape and determine the environment as we see it today. While the emphasis is on geology, the programme is multidisciplinary in nature and is strongly supported by the physical and biological sciences.

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

Specialist Programme in Terrain and Environmental Earth Sciences (TEES)

GLG01Y Planet Earth: an introduction to Geology

Telephone ID: 07010163
Exclusion: GCR27 and GCR35

GLG04F Field Camps

Telephone ID: 07020153

GLG04F Field Camp 1

The camp will be held in May, after the final Spring examinations. Possible locations include Costa Rica and Appalachian.

Exclusion: GLH05F and GLG02S

Session: Winter Day Staff

GLG05F Introductory Mineralogy

Telephone ID: 07020533

Crystallography, physical properties, origin and occurrence of minerals, and the descriptive mineralogy of approximately eighty common and useful minerals.

Exclusion: GLG01Y, 221

GLG06S Optical Mineralogy

Telephone ID: 07020653

Optical mineralogy and identification of the principal rock-forming minerals in this section by the use of the polarizing microscope, introduction to petrography.

Exclusion: GLG21F, 221

Session: Winter Day

J. Gilmore

GLG06F Glacial and Periglacial Geology

Telephone ID: 07030533

Lignite sheets have covered all but 3% of the Canadian landmass many times in the last 2 million years. A thorough understanding of glacial processes and stratigraphies is essential for environmental geology, hydrogeology, mineral exploration and geo-engineering. Field and project work emphasize the glacial record of Southern Ontario particularly as it bears on the urban environmental geology of Metro Toronto.

Exclusion: GCR06S, GCR22S

Session: Winter Day

Session: Winter Day

N. Eyles

GLG08S Subsurface Exploration Techniques: Drilling

Telephone ID: 07030833

This course is designed to expose students to subsurface exploration techniques necessary for geotechnical, hydrogeological and mineral exploration investigations. The course is organized as field presentations combined with classroom instruction and laboratory practices in waterwell, blasthole, geotechnical, exploration and rotary drilling. Applications, limitations, costs, advantages and disadvantages will be stressed. Particular emphasis will be placed on new developments in drilling equipment, overburden drilling and in situ testing in Quaternary sediments, design and installation of hydrogeological monitoring and production wells.

Prerequisite: GCR06F, GCR22S or with permission of instructor.

Session: Winter Day

R. Pynn
German

Discipline Representative: H. Oldendorf

The German Program is designed to introduce students to the language and culture of the German-speaking countries. A variety of modern integrated teaching materials is used to maximize students' exposure to the four language skills (listening, speaking, reading, and writing). Students interested in language studies are encouraged to combine the German Major Program with another language major for a Specialist degree in Modern Languages.

The German Major Program is also recognized as an excellent complement to study in Fine Art, History, Humanities, Linguistics, Literature, Philosophy, and Social Sciences. Germany also participates in the program Management and Language offered jointly by the Division of Humanities and the Division of Management and Economics.

The internationally recognized Certificate for German as a Second Language may be obtained by students chiefly interested in language competence, who have completed the following courses: GER100, GER101, GER102, GER190, GER190X, GER191, or their equivalent. This course of study may be of interest to students in the Social Sciences who are attracted to international relations. A Work Study Program in the Federal Republic of Germany is available to qualified students. The Federal Republic of Germany guarantees a job for the months of June and July and allows for independent travel in August.

The German government, through the Goethe Institute, also makes available various scholarships for intensive language studies to qualified students.

Major Program in German Language Supervisors: H. Oldendorf

The Program consists of the following courses:

GERA10Y Introductory German
GERA90H Language Practice I
GERA90Y Intermediate German
GERB190Y Language Practice II
GERC019S The Last Hundred Years
GERC029S History of the German Language
GERC039S Language in a Literary Context
GERC099S Language Practice III
GERC190Y Advanced German
LINA290Y General Linguistics (a more theory-oriented course)

Language requirements will be waived by the Supervisor for students judged to have advanced knowledge of German. Equivalent courses will be substituted in consultation with the Supervisor. Courses in German Literature to the Original will continue to be available under the rubric of supervised reading.

See also the following courses in translation:
HUMB02Y Introduction to Literature
DRA109Y Dramatic Literature and Political Revolution
HUMB309S Science, Power and Hell: The Story of Dr. Faustus

GERA191Y Advanced German

The fundamentals of the German Language. Grammar, syntax, and vocabulary are introduced to provide a basic knowledge of the language. There are three hours per week of intensive language work. Students are also encouraged to make use of available computer-based learning programs. Exclusion: GER100, GER101

Supervisors: GERA90Y

Session: Winter Day

Offered every year

GERA192Y Language Practice IV

A practical complement to GERA10Y. This course is designed to reinforce and supplement through oral practice the grammar work done in GERA10Y, as well as to expand the students' skills to communicate in German. The course will meet twice a week throughout the year. Course work can be supplemented by computer-based language programs available in the Resource Room.

Exclusion: GER100, GER101

Supervisors: GERA10Y

Session: Winter Day

Offered every year

GERC029S The Last Hundred Years

TelephoneNumber: 0883/1943

A practical complement to GERB190Y. This course is designed to increase the students' vocabulary and fluency in German through supervised discussion, essay writing, and reading. The course will meet twice a week throughout the year.

Exclusion: GERB190, GERB206

Supervisors: DAC German or Grade 13 German or GER109 and GER110

Supervisors: GERA80Y

Session: Winter Day

Offered every year

GERC192Y Advanced German

The last phase of German language study. The course is designed to enhance the students' professional and personal proficiency in the language. Students will be expected to participate in discussions and presentations and to write compositions on a variety of topics.

Supervisors: GER100 and GER101

Session: Winter Day

Offered every year

GERC029S The Last Hundred Years

TelephoneNumber: 0883/1135

In this course, the student is introduced to the most pertinent aspects of Germany's recent history and culture beginning with the end of WWI and continuing into the era of Nazi Germany, WWII, and the division of Germany. The course also attempts to understand post-WWII forces and pressures which brought about the unification of Germany. In addition to the material provided through lectures and test book readings, there will be readings and discussions of relevant events.
contemporary literature and films. The course is taught in English. 
Exclusion: GER242F/5
Session: Winter Day
U. Leterrier-Sherman
Not offered 1995/96
Offered 1994/95

GER243S Language in a Literary Context
Telephone ID: 06830535
An introduction to the techniques of critical analysis.
The course will look at short works of literature as examples of the particularly refined use of language. It is intended to familiarize the language student with elementary techniques of literary analysis. All sections are informal tutorials with free-flowing discussions and a high degree of student involvement. Each student is asked to prepare a paper on short presentations.
Exclusion: GER226, GER232
Prerequisites: GERB19 and GERB20
Session: Winter Day
H. Wittmann
Not offered 1993/94
Offered 1994/95

GER245S Language Practice III
Telephone ID: 06830535
A course complimentary to GER105Y. This course will continue the work done in GER105Y. The communicative skills of the students will be further enhanced by a variety of exercises in oral and written composition around current topics of interest. Much emphasis will be given to the needs of individual students and their aspirations towards bilingualism.
Exclusion: GER130, GER11
Complementary: GER105Y
Session: Winter Day
U. Leterrier-Sherman
Offered every year

GER250Y Advanced German
Telephone ID: 06831063
A continuation of language work done in GERB20.
Language exercises will be centered on different aspects of grammar and syntax as an advanced level will reinforce the students' ability to read, speak, and translate. Material on current events will be used as much as possible. The course intends to further the students' analytic ability to write and read German.
Exclusion: GER201Y, GER310, GER31
Prerequisites: GERB19 and GERB20
Session: Winter Day.
Staff
Offered every year

GER260, 11.12F
GER263, 14.15, 16F
GER264Y Supervised Reading
Courses are designed to give students an opportunity to study German literature in the original and to follow up on ideas generated during the more formal courses of instruction. Topics and/or projects are formulated in close consultation between student and supervisor chosen by student.
Exclusion: GER260F, GER26Y, GER26YF, GER264F, GER265, GER266F, GER268
Prerequisites: GERB19 and GERB20
Session: Winter Day
Staff
Courses Not Offered in 1992-93

GER285S History of the German Language
Exclusion: GER283S
Prerequisites: GER2A or Grade 13 German or GER8A and GER20
Not offered 1992/93
Offered 1992/93

GER211F/5 German in Commerce and Management
Prerequisite: GERB19, GERB20
Offered 1993/94

Greek
Courses are offered in introductory Classical Greek (GER261 and GER262, GER261A), Greek literature, the classical period (GER261, GER262, etc.), and modern Greek (GER265, GER266, etc.).

GER226F Introduction to Greek Authors
GER260 Intermediate Modern Greek
GER265 Plato: Apology
GER266F Modern Greek Music
GER268F Modern Greek Cinema and Theatre
GER264S Classical Themes in Modern Greek Literature
GER260/262 Superseded Reading
GER260Y
For further information see under Classical Studies.

Greek and Roman History

History
Discipline Representative: E.W. Dowler (267-7145)
The study of history is intended to enhance our understanding of human society by examining the experiences of particular peoples and their societies in the past. Its findings depend upon the precise evaluation of specific evidence. History's concerns and goals are humanistic; its methods draw from all forms of scholarly 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. HIST401Y provides both a general introduction to the study of history at the university level, and the preparation for further studies in European history. A series of survey courses (HIST402-09) provides a comprehensive foundation of knowledge in their particular areas, and also serves as preparation for more detailed and advanced studies. In upper-level courses students investigate more specific areas, periods, or problems. D-series courses are conducted as seminars. In them students make close and thorough studies of particular questions and present their findings in discussions and major essays. There are sequences of courses at all levels in the following areas: Medieval European, Modern European, Eastern, American, Canadian, Latin, and Ancient Greek and Roman.

Specialist Programmes in History
Supervisor: W.M. Dick (287-7144)
1 Number of Courses
Students must complete ten full-course equivalents in History (HIS or GRH). These ten must include HIS401Y and five upper-level full-course equivalents (C7-level courses on the Scarborough Campus, 30000-level courses on the St. George Campus). At least one of the five must be a 4000-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 Course
Of the ten at least two full-course equivalents must deal with the period prior to 1815 (all GRH courses and as indicated in the HIS course descriptions).

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 within one area (one and one-half full-course equivalents may meet this requirement).

Major Programmes in History
Supervisor: W.M. Dick (287-7144)

1 Number of Courses
Students must complete seven full-course equivalents in History (HIS or GRH). These seven must include HIS401Y and three upper-level full-course equivalents (C7-level courses on the Scarborough Campus, 30000-level courses on the St. George Campus).

2 Pre-1815 Course
Of the seven at least one full-course equivalent must deal with the period prior to 1815 (All GRH courses and as indicated in the HIS course descriptions).

3 Areas of Study
Students are also required to take courses in at least two different areas as indicated in the course descriptions.

Note: Students are advised to consult the prerequisites for C-level and D-level courses when planning their individual programmes.
History

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Courses in History

HIS31Y The European World: An Introduction to History
 Telephones ID #: 07510013
 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. For further reading by the student is essential.
 Examinations: HIS105, HIS109
 0.5 Pre-1815 credit
 European Area
 Session: Winter Day/Winter Evening
 J. Parnell, M. Kojerc
 Offered 1993/94 and 1994/95

HIS32S The Twentieth-Century World
 Telephones ID #: 07510023
 The background to the international conflicts and national tensions which fill our daily news.
 This course concentrates on major political and social problems; explores the disintegration of the great European empires and the formation of a new balance of power between western, communist, and third world powers; examines the practice of democracy and dictatorship within nations; investigates the impact of scientific and technological change on the world economy and on morality.
 Sessions: Winter, Day
 W. M. Dick and Staff
 Not offered 1993/94
 Offered 1994/95

HIS32Y Return from the Eighteenth Century to the Present
 Telephones ID #: 07520023
 An examination of the political, social, economic, and religious forces which transformed an aristocratic society into an industrial one, and of the reasons for the decline of British power in the twentieth century. The course will be concerned with the problems raised by the transformation of an agrarian into a highly industrialized society, of an aristocratic into a liberal democratic society, and of society based on the ideology of the Enlightenment into one committed to that of evangelical humanitarianism. It will also consider why, in the eighteenth century, the British abandoned their imperial role and concentrated on the establishment of a welfare state. Two lectures per week.
 Examinations: HIS329
 British Area
 Session: Winter Day
 F. Boccaletti
 Offered 1993/94 and 1994/95

HIS383Y History of the United States
 Telephones ID #: 07520033
 Major themes from the Revolution to the present.
 The course will focus on such questions as independence, political organization, political parties, territorial expansion, nationalism and sectionalism, reform movements, the slavery and civil rights question, the response to industrialization, progressiveism, and the United States as a world power. Two lectures per week.
 Examinations: HIS321
 American Area
 Session: Winter Day
 A. N. Shepard, W. M. Dick Offered 1993/94 and 1994/95

HIS384Y Introduction to Canadian History
 Telephones ID #: 07520043
 An introduction to the history of Canada from the first European contacts to the present.
 Topics studied include: exploration and settlement; the institutions and life of New France; the British Conquest and its results; the impact of the American Revolution on British North America; development of the British colonies in North America; the confederation movement; the political, economic, social, and cultural history of the new nation-state established in 1867. Two lectures per week.
 Examinations: HIS325
 Canadian Area
 Session: Winter Day
 F. H. Vint, R. J. Robertson
 Offered 1993/94 and 1994/95

HIS386Y Europe in the Middle Ages
 Telephones ID #: 07520053
 A chronological survey of economic, political, religious, and social developments in Western Europe (including Britain) from the late Roman period to the fifteenth century. The object of this course is to familiarize students with the foundations of Western society as they evolved in conjunction with the early settlement, colonization, and subsequent expansion of Europe. Particular attention is paid (i) to the peculiar circumstances which determined national boundaries and which led to the divisions and conflicts of the modern world, and (ii) to the origin and development of our own religious, legal, educational and political institutions. Readings are from P. Brown, The World of Late Antiquity: G. Dobbs, Rural Economy and Country Life in the Medieval West; D. Hay, The Medieval Conquestes; B. W. Southern, Western Society and the Church in the Middle Ages; and others. Two lectures of two hours per week.
 Examinations: HIS220
 Pre-1815 credit
 Medieval Area
 Session: Winter Day
 M. Grever
 Offered 1993/94 and 1994/95

HIS387Y Russia from the Thirteenth Century to the Present
 Telephones ID #: 07520063
 The Russian people, state, and culture, with emphasis on the major social, institutional, and ideological changes from the rise of Moscow to the present. The course will also explore the extent to which Russian history can be compared with that of the national states of Europe.
 Examinations: HIS250
 Russian Area
 Session: Winter Day
 E. W. Bowmer
 Not offered 1993/94
 Offered 1994/95

HIS388Y The Sixteenth Century Religious Reformation and the Counter-Reformation
 Telephones ID #: 07520073
 How and why was a cultural war fought on world stages? What happens when it doesn't? In the early sixteenth century most Europeans were Catholic, by the end of the sixteenth century a radical restructuring had taken place. This course will examine this process and its impact on the European societies.
 Examinations: HIS250
 Canadian Area
 Session: Winter Day
 J. R. Rouben
 Not offered 1993/94
 Offered 1994/95

HIS389Y Europe in the Enlightenment
 Telephones ID #: 07520083
 An examination of the ideals of the Enlightenment against the background of the social and political reality of Europe in the eighteenth century.
 Emphasis will be placed on the integration of theory and practice in the writings and policies of the enlightened despots. In the first term the course will focus on the ideas of the Enlightenment and the social, economic, and intellectual milieu which spawned them. In the second semester, Enlightenment despots apply...
Enlightenment ideas to the life of their states will be examined. Lectures and discussion.
Exclusion: HIS3835
Prerequisite: HIS401
Pre-1815 credit

European Area
Session: Winter Day
E. W. Dowler
Not offered 1993/94
Offered 1994/95

HIS232Y The Age of Formal England
Telephone ID #: 0753236
England from the end of the Wars of the Roses to the Glorious Revolution, 1485-1688.
The course gives an overview of political, economic, social, and cultural patterns. Special attention will be given to the role of the powers and personalities of the rulers: Parliament and the rule of law; the great religious crisis and its split with a new and the cultural heritage. Two lecture hours and one tutorial per week.
Exclusion: HIS212I HIS221
Prerequisite: Any B-level full-course equivalent
Pre-1815 credit

British Area
Session: Winter Evening
L. A. Aymes
Offered 1993/94 and 1994/95

HIS233S Society and Politics in the United States, 1770-1850
Telephone ID #: 0753335
Society and Politics in the United States, 1770-1850.
The course will include the following topics: Jeffersonian nationalism, Jacksonianism, Whiggism, social reform, anti-slavery and women's movement, and the development of economic, territorial, and cultural nationalism. Crises as well as champions of the early republic will be discussed.
Prerequisite: HIS101

American Area
Session: Winter Evening
A. N. Shroy
Not offered 1993/94
Offered 1994/95

HIS235Y Twentieth-Century America
Telephone ID #: 0753356
A topical study of the United States since the turn of the century.
A traditionally rural culture of individual opportunity and national isolationism faces the problems created by urbanization, ethnocentrism, industrialization, and world power. The tensions created by the appearance of large-scale organization, by the expansion of governmental power, by demands for social justice, and by the changing role of the U.S. in world affairs are the themes of this course. One two-hour session and one tutorial per week.
Exclusion: HIS233S
HIS232Y
Prerequisite: HIS101

American Area
Session: Winter Day
W. M. Dick
Offered 1993/94
Not offered 1994/95

HIS234Y Atlantic Canada
Telephone ID #: 0753466
An examination of the Maritime provinces and Newfoundland from the first European contact to Confederation in each province. Subjects to be investigated include: native peoples and the impact of European contact; French regime and the development of a distinctive Acadian people; the dispersal of the Acadians; British settlement; responses to the American Revolution; the Loyalist impact; colonial economics and social structures; literary and intellectual developments; struggles for responsible government, and its eventual loss in Newfoundland; religious and ethnic tensions; fisheries' movements in Newfoundland; the coming of Confederation. One two-hour lecture per week, and the class will be divided into two tutorial groups, each meeting once every two weeks. Written work will include two research papers.
Exclusion: HIS340
Prerequisite: HIS304
0.5 Pre-1815 credit
Canadian Area
Session: Winter Day
L. R. Robertson
Offered 1993/94 and 1994/95

HIS248S Canada Between the World Wars
Telephone ID #: 0753495
An intensive study 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 labor, the political upheavals of the era, and the problem of external relations as war approached again.
Prerequisite: HIS304
Canadian Area
Session: Winter Day
J. R. Robertson
Not offered 1993/94 and 1994/95

HIS279F Social History of Revolutionary Russia, 1905 to the Present
Telephone ID #: 0753253
Social change in Russia and the USSR from the revolution of 1905 to the revolution of the 1960s.
This course will look at the revolutionary mix of social forces in the first two decades of the twentieth century, the social experiments of the 1920s, the Stalinist revolution of the 1930s and 1940s, and the disintegration of the Stalinist consensus since Stalin's death in 1953.
Prerequisite: HIS307Y
Russian Area
Session: Winter Day
K. W. Dowler
Not offered 1993/94 and 1994/95

HIS266S Revolutionary France, 1789-1815
Telephone ID #: 0753663
The age of revolution and its continuing importance.
The course will study the elements of tradition and community in this period as well as the more obvious aspects of radical break with the past. A two-hour lecture period and a one-hour tutorial per week.
Prerequisite: HIS201Y
0.5 Pre-1815 credit
European Area
Session: Winter Day
J. L. Pearl
Offered 1993/94
Offered 1994/95

HIS287Y Germany in the Nineteenth and Twentieth Centuries
Telephone ID #: 0753875
A thematic treatment of German history from the end of the Holy Roman Empire to the present.
The course will concentrate on social, economic, and cultural interpretations of Germany's political experience.
Two consecutive hours of lectures and one hour of tutorial per week. A set of readings from primary and secondary sources will be assigned, but extensive further reading is essential.
Exclusion: HIS317Y HIS317
Prerequisites: HIS265
European Area
Session: Winter Day
J. L. Pearl
Offered 1993/94

HIS288Y Crime and Punishment in Early Modern Europe 1500-1800
A seminar investigating concepts of law, court systems, and penalties in Early Modern Europe.
The course will examine how legal systems reflected their societies. Lay courts and ecclesiastical courts (inquisitions) will be studied. The role of torture, corporal, and capital punishment will be examined in the context of societies and their values. Limited enrolment: 20.
Prerequisites: HIS340 and one B or C level course in history, 0.5 Pre-1815 credit
British/European Areas
Session: Winter Day
J. L. Pearl
Offered 1993/94

HIS301Y The Making of Modern Society
Telephone ID #: 0753126
A seminar in the international history of "industrialization" from the late eighteenth century to the early twentieth century.
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The course discusses political, population pressure, and industrialization alien to pre-industrial society, how early forms of social protest changed into mass organizations, how revolutionary ideas affected ordinary people, and how governments and "governing classes" responded to pressures from below.

The course provides the opportunity for students to re-examine, on a comparative basis, knowledge gained in other courses. Three-semester hour. Limited enrollment: 15. Exclusion: HIS 212. Prerequisite: HIS 203.

Offered 1993/94 and 1994/95

HISD17Y European Society and Culture in the Twentieth Century

An investigation of the impact of war, technology, economic crisis, and totalitarianism on the social conditions and minds of Europeans.

Two-hour seminar. Limited enrollment: 15. Exclusion: HIS 217, HIS 218, HIS 212. Prerequisite: HIS 203 and one B- or C-level course in History.

Offered 1993/94 and 1994/95

**Courses in Classical Studies (see Classical Studies for full course descriptions):**

**GRH101Y Greek History from the Bronze Age to the Death of Alexander**
Pre-1815 credit
Ancient Greek and Roman
Session: Winter Day
J. Corbett
Not offered 1993/94
Offered 1994/95

**GRH102Y The Roman World**
Pre-1815 credit
Ancient Greek and Roman
Session: Winter Day
J. Corbett
Not offered 1993/94
Offered 1994/95

**GRH255Y Political and Social Life in Classical Athens (300-300 B.C.)**
Pre-requisite: GRH101Y or any related GRH
Ancient Greek and Roman
Session: Winter Day
A. Robinson
Not offered 1993/94 or 1994/95

**HIS145Y Modern France 1750 to the Present**
Pre-requisite: HIS 216
HIS 217
Pre-requisite: HIS 206 or permission of instructor
Offered 1993/94
Not offered 1994/95

**HIS164Y Slavery in the American South**
Exclusion: HIS 211
HIS 217
Prerequisite: HIS 206
American Area
Offered 1993/94
Not offered 1994/95

**HIS165Y Immigration and Race Relations in Canada**
Exclusion: HIS 211
Canadian Area
Offered 1993/94
Not offered 1994/95

**HIS167Y The Canadian Left, 1867 to the Present**
Exclusion: HIS 211
Canadian Area
Offered 1993/94 and 1994/95

**HIS174F Social History of Imperial Russia, 1700-1917**
Russian Area
Offered 1993/94 and 1994/95

**HIS184F Popular Culture in Early Modern Europe**
Exclusion: HIS 211
Pre-requisite: HIS 206 or 1.5 Pre-1815 credit
European Area
Offered 1993/94
Not offered 1994/95

**HIS194F History of Feminism since the Eighteenth Century**
British/European Areas
Offered 1993/94 and 1994/95

**HIS248Y United States, 1760-1790**
Exclusion: HIS 214
HIS 217
American Area
Offered 1993/94
Not offered 1994/95

The History of Ideas

The Major Programme in History of Ideas is no longer offered, but students currently enrolled in it will be allowed to complete the programme.

Humansities

**Discipline Representative:**

C.V. Ponnamballi (287-7166)

"The study of culture is largely the study of continuity, and it is this sense of continuity rather than of rupture and discontinuity, that 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."

As one of the College's four academic Divisions, Humanities comprises twelve distinct disciplines, such as Classical Studies, English, History, and the Modern Languages. Each of them offers a range of courses in its own area and in its own programme(s) of study. There 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 courses are usually offered in the context of the Elective Program, and the course title does not necessarily reflect the content. The rubric HUM is also used for courses that focus on the humanities and the arts.

Within this context, the Division offers a wide range of courses in various disciplines, including but not limited to literature, philosophy, history, and the arts. These courses are designed to provide students with a broad understanding of the humanities and to enhance their critical thinking skills.

The rubric HUM is also used for courses that are offered as part of the Elective Program. These courses are designed to provide students with a broad understanding of the humanities and to enhance their critical thinking skills. The Elective Program is designed to provide students with a wide range of options to explore their interests and to develop their skills.

In general, the rubric HUM is used to identify courses that are offered in the context of the humanities and the arts. These courses are designed to provide students with a broad understanding of the humanities and to enhance their critical thinking skills. The rubric HUM is also used for courses that are offered as part of the Elective Program. These courses are designed to provide students with a wide range of options to explore their interests and to develop their skills.
HUM 444F Disaster and the Literary Imagination

Telephone ID #: 07825843

An exploration of the impact of totalitarianism, war, and the Holocaust on the post-Second World War European literary imagination.

The course will focus on the works and on German literature. Exclusion: (LIT1080)

Prerequisite: One course in literature Session: Winter Day C. V. Ponomareff Not offered 1993/94

HUM 594Y The Nineteenth Century Russian Novel, 1820-1860

The image of the nihilist in nineteenth-century Russian fiction at the height of its literary achievement.

The course will focus on the conflict between Humanism and Nihilism in Russian culture set into the wider context of European letters and explore the human, social, and artistic visions behind the major literary works by Pushkin, Gogol, Dostoevsky, Turgenev, Dobrolyubov, Leo Tolstoy, and Anton Chekhov.

Exclusion: (KUSH511), (LIT1080), (SLA2407)

Prerequisite: One course in literature. Session: Winter Day C. V. Ponomareff Not offered 1993/94

HUM 521S Humanities Seminar

A special full-course equivalent seminar course, taken normally after the completion of ten full-course equivalents. Each member of the seminar undertakes an individual project and gives a report on it. Topics for the semester are to be chosen in consultation with the Co-ordinator. Students are to take courses under the supervision of faculty drawn from the various disciplines within the Division of Humanities. Students will be expected to produce major papers or projects in their chosen area, and will take an oral examination at the end of the year appropriate for their discipline. These interested in enrolment should contact the Supervisor of Studies.

Exclusion: (HUM501, C93)

Prerequisite: Any ten full-course equivalents. Session: Winter Day Co-ordinator: W. C. Graham Offered 1993/94 and 1994/95

HUMC 111 Arts Seminar

Telephone ID #: 07821143

A one-credit performance course combining at least two of: Fine Art Studio, Fine Art History, Drama and Music.

Students will bring a proposal for a project to the supervisor early in the fall term and develop their proposals through the term. They will present their seminar performance in the spring term. The format of presentation will depend upon the development of the proposal and the disciplines involved. Prerequisite: At least 10 full-course equivalents in the Arts Programmes.


HUM 601F

HUM 602S

HUM 602Y Supervised Readings

A supervised study of an advanced and intensive kind under the direction of a faculty member. The material studied should have some significant relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in other courses.

The student should submit to the Supervisor of the Humanities Program a statement of objectives and proposed content for the course; this should be done by 15 April for Fall and Spring courses and by 1 December for Summer courses. If the proposal is approved, two faculty members from relevant disciplines will supervise and evaluate the work.

Exclusion: (HUM 601, C93)

Prerequisite: Three B-level full-course equivalents in the Division of Humanities. Session: Winter Day Offered 1993/94 and 1994/95

HUM 605S-901Y Individual Study Year

A supervised study of advanced and intensive kind under the supervision of faculty drawn from the various disciplines within the Division of Humanities. Students will be expected to produce major papers or projects in their chosen area, and will take an oral examination at the end of the year appropriate for their discipline. These interested in enrolment should contact the Supervisor of Studies.

Exclusion: (HUM 605S, C93)

Prerequisite: Permission of the Supervisor of Studies. Session: Winter Day Staff Offered 1993/94 and 1994/95

CLAS 02 Y Greek and Roman Mythology

Telephone ID #: 03101263

The emergence and institution of myths and legends in the Greek-Roman World.

The course will examine the more important myths and legends and their representation in classical literature, drama, and art, and will partly be concerned with ancient and modern theories of myth. This course will be useful to students engaged in literary and art-historical studies and will serve as an introduction to other courses in classics.

Exclusion: (HUM 411)


TRAC 715 Italian Cinema

Telephone ID #: 08431755

A survey of the development of Italian cinema from World War II to the present. Films by Rossellini, Antonioni, Fellini, Pasolini, and other post-war Italian directors will be shown during the course, which will meet four hours per week.

Exclusion: (HUM 605S, C93)

Prerequisite: Italian language proficiency. Session: Winter Day Staff Offered 1993/94 and 1994/95

SPAR 114F The Civilization of Spain I

Telephone ID #: 28721433

The events and personalities which shaped Spain from the eighth to the eighteenth centuries.

The main topics will include: the rise and fall of the Visigoths, the Christian Reconquest, the Reconquista—The Spanish Inquisition; the New World and its impact on the Old—Christopher Columbus, the rise and fall of the Spanish Empire—Charles V to Philip II; daily life in the Spanish Golden Age; the art of Velazquez. Weekly two-hour lectures and discussions are complemented by tapes, slides and films. The course is taught in English.

Exclusion: (HUM 601S) (HUM 603)

Session: Winter Day P. Leon Not offered 1993/94 Offered 1994/95

SPAR 115 The Civilization of Spain II

Telephone ID #: 28721533

The events and personalities that have shaped Spain from the Romantic Age to the present.

The main topics will include: Goya and his world, the Spanish Civil War—its causes, context, forces, and aftermath, Lorca, Buñuel, and Dali—a new vision of reality, Franco—forty years of dictatorship; the transition to democracy as seen in the popular culture of the seventies; present-day Spain. Weekly two-hour lectures are complemented by tapes, slides, and films. The course is taught in English.

Exclusion: (HUM 601S) (HUM 601B)

Session: Winter Day K. Codde Not offered 1993/94 Offered 1994/95

BRM 01 Introduction to Biological Sciences

Telephone ID #: 0120163

An introduction to the central concepts of biology and their interrelationships.

The course is designed for students with no formal background in biology but who have acquired some skill in reflection and in writing. Topics will include the functioning of cells and organisms and the relationships of organisms in space and time. The contemporary understanding of biological structures and functions will be illustrated by reference to common experimental and theoretical paradigms which require biological input for their solutions. Reading and essay writing will be an integral part of the course, supplemented by lectures and discussion periods.

Exclusion: BID005 (BRB01)

Prerequisite: Either, two full-course equivalents in the Division of Humanities; or, two full-course equivalents in the Division of Social Sciences, with permission of instructor. Session: Winter Day G.R. Williams Offered 1993/94 Not offered 1993/94
International Development Studies

Major Programme in International Development Studies

Supervisor: J. Badley

The dimensions and diversity of problems facing developing countries have involved many academic disciplines. At the Earthscan 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 Searborough 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 programme in a related discipline. The Programme is designed both for students with a broad general interest in developing countries as in those with some interest in pursuing a course in development studies. Students in the latter category should seriously consider the more intensive Co-operative Programme in International Development Studies.

Students must complete:

- **IDS301Y** Political Economy of International Development Development Studies
- **IDS302Y** Physical and Ecological Resource Management

They must also complete at least three full-course equivalents from the following:

- **ANT1005Y** Anthropological Perspectives on Development
- **ECO105F** Environmental Biology
- **ECO207F** Economic Development
- **ECO208F** Development Policy
- **ECO305F** Introduction to Soil Science
- **GEO305F** Soil Management in Tropical Regions
- **POL201Y** Politics of the Third World
- **SOC105F** Social Change in the Third World

An additional three full-course equivalents should be selected from the following:

- **ANT105Y** Ecological Anthropology
- **ANT1065Y** Anthropological Perspective
- **ANT305Y** African Cultures and Societies I: Survey
- **ANT405Y** Comparative Slavery
- **ANT205Y** Social and Cultural Anthropology
- **ANT206Y** Cultures of the Middle East and the Islamic World
- **ANT207F** African Cultures and Societies II: Case Studies
- **ANT211Y** The Anthropology of Women
- **ANT219F** Economic Anthropology
- **ANT309Y** Quantitative Methods in Anthropology
- **ANT411F** The Anthropology of Food
- **ANT415Y** Cultural Anthropology
- **BIO100Y** Fundamentals of Ecology
- **BIO201Y** Evolution of Animal and Plant Diversity
- **ECO201Y** Introduction to Economics
- **ECO202Y** Microeconomics
- **ECO203Y** Macroeconomics and Policy
- **ECO204Y** Macroeconomic Theory and Policy
- **ECO205Y** Mathematical Approach
- **ECO206Y** Mathematical Theory of Economics

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 Example 1 below.

Example 1 (three-year degree)

First Year:
- **IDS301Y**, **IDS302Y**, **ECO302Y**
- **IDS303Y**, **GEO205F**, **SOC201Y**

Second Year:
- **ECO204Y**, **GEO205F**, **ANT105Y**, **ANT405Y**, **POL105Y**, **POL405Y**

Third Year:
- **ECO201Y**, **GEO205F**, **ANT105Y**, **POL105Y**
- **IDS203Y**, **IDS303Y**, **ECO202Y**, **POL405Y**

However, students are strongly advised to register in a four-year degree which requires a Major (or Speciality) in a discipline as well as a Major in International Development Studies. In Example 2 a Major in Political Science would be obtained along with a Major in International Development Studies. Example 2 (four-year degree)

First Year:
- **ECO202Y** or **ECO203Y**, **POL105Y**
- **IDS203Y**, **IDS303Y**, **ECO202Y**, **ANT105Y**

Second Year:
- **IDS203Y**, **IDS303Y**, **ECO202Y**, **ANT105Y**, **POL105Y**

Third Year:
- **ANT105Y**, **IDS204F**, **ECO206F**, **ECO207F**

Fourth Year:
- **ANT205Y**, **ANT206Y**, **POL105Y**, **POL405Y**

Fifth Year:
- **IDS203Y**, **IDS303Y**, **ECO202Y**, **POL405Y**
Italian

**Discipline Representative:** D. McNamara (287-7168)

Scarborough College offers a range of courses on the language and literature of Italy from the Middle Ages to the present. For students who have no previous training in the language, the study of Italian begins at the elementary level with ITAA01/02 or ITAA11. ITAA0A/00 students may then take (ITAA0); students from ITAA11 may take ITAA11. One of the two courses (ITAA01 and ITAA11) is a prerequisite to all other Italian courses taught in Italian.

Students with other types of language preparation should consult the Discipline Representative before choosing their course of study. In all courses, emphasis is given to spoken as well as written aspects of the language.

Courses offered by other disciplines may prove directly valuable to students in Italian as adjuncts to their plan of study or as an enrichment of their total program. Similarly, certain aspects of Italian literature complement other areas of interest, such as Fine Arts, Music, English, French, Latin, Spanish, and Humanities. Students enrolled in Italian, some of whom may merely wish to enroll in the Faculty of Education to continue their studies at the graduate level, are strongly urged to confer with their instructors at the earliest possible date in order to establish a comprehensive and coherent plan of study.

Students are not allowed to take any A-level courses in Italian language while taking another A-level course in Italian language. All students must be enrolled in the Faculty of Education to continue their studies in Italian at the graduate level.

Students in the Major Programmes may satisfy some of their Programme requirements through a Study Elsewhere Programme sponsored by the University of Toronto at Siena.

**Major Programme in Italian**

**Language Supervisor:** J. Campana (287-7180)

The Programme consists of two levels of language and some aspects of Italian culture and civilization. It has two streams, according to the student's background. Students should complete seven full-course equivalents, as follows:

- **Option A** (for students who have no prior knowledge of Italian or its dialects):
  1. ITAA01Y Introductory Italian
  2. ITAA02H Language Practice
  3. ITAA09S Conversation II
  4. ITAA09SF Intermediate Conversation
  5. ITAA09Y Intermediate Italian I
  6. ITAACY1Y Language Practice
  7. ITAAC2FS Introduction to Modern and Contemporary Italian Literature
  8. ITAAC2FHS Survey of Italian Literature from the Middle Ages to the Renaissance

- **Option B** (for students with prior knowledge of Italian or one of its dialects):
  1. ITAA11Y Elementary Italian
  2. ITAA02S Conversation II
  3. ITAA02SF Intermediate Conversation
  4. ITAA11BY Intermediate Italian II
  5. ITAC22FS Introduction to Modern and Contemporary Italian Literature
  6. ITAC22FHS Survey of Italian Literature from the Middle Ages to the Renaissance
  7. One and one-half full-course equivalents from among the following:
     - ITAC22FSP (for the students who completed 2 with ITAA09S)
     - ITAC22FSF, ITAC22FS, ITAC22FHS
  8. ITAC22Y General Linguistics

Language requirements will be waived by the Supervisor for students who have had advanced knowledge of Italian. Appropriate courses from the Discipline's offerings will be substituted. Students are strongly advised to discuss their Programme as soon as possible with the Supervisor.

**Major Programme in Italian Language and Literature**

The Major Programme in Italian Language and Literature is no longer offered, but students currently enrolled in it will be allowed to complete the programme.

**ITAA01Y Introductory Italian**

Telephone ID #: 0861001

An introductory course for students with no knowledge of Italian which must be taken together with ITAA02H. Element of Italian grammar, with attention given to oral practice. Short contemporary texts will be studied.

**ITAA02H Language Practice**

An opportunity to provide a relaxed friendly atmosphere in which to study basic standard Italian grammar and syntax. Importance is given to exercises which develop the practical skills of understanding and speaking needed for the requisite course A021. The basic Italian textbook is supplemented by dialogues made up by the students and easy readings comprising as early as possible in the textbook permits. A programme is also provided in the language laboratory. Students are expected to participate in classroom exercises, read in written assignments completed outside the classroom, and write monthly tests.

Exclusion: OAC Italian or Grade 13 Italian or ITAA11; ITAA00

**Correbron: ITAA02**

It is also recommended that students enrolled in ITAA01 and ITAA02 take ITAA03 concurrently with them in the Spring term.

**Sessions:** Winter Day

D. McNamara

Offered every year

**ITAA02H Introductory Italian Language Practice**

Telephone ID #: 08610243

Practical applications of the language structures introduced in ITAA01Y.

As with the prerequisite A01Y, your aim is to provide a relaxed, friendly atmosphere in which to learn basic standard Italian. The class is devoted entirely to conversing in Italian. At the beginning of the course, students are given set dialogues which they practice with one another. As they gain confidence and knowledge of the language, they are encouraged to prepare their own dialogues and contribute to the class on topics of interest.

Exclusion: OAC Italian or Grade 13 Italian; ITAA01

**Correbron: ITAA01**

**Session:** Winter Day

D. McNamara

Offered every year

**ITAA03S Conversation II**

Telephone ID #: 08610553

A course is offered in the language structures introduced in ITAA01 and ITAA02.

Students are encouraged to speak Italian in a relaxed, informal classroom atmosphere. Conversations are based on situations that the student is likely to encounter in Italy as well as on readings prepared at home from literary works, newspapers, and magazines. Among the topics chosen are the geography, history, politics, economics, and cultural life of contemporary Italy.

Exclusion: ITAA01

**Correbron:** ITAA01 or ITAA11

**Session:** Winter Day

A. Finocchiaro

Offered every year

**ITAA11Y Elementary Italian**

Telephone ID #: 08610163

An elementary course for native speakers with little or no knowledge of standard Italian usage.

The course aims at giving a basic knowledge of speaking, reading, and writing Italian. The main objective is to free the student from phonological, lexical, and grammatical interference arising from the use of dialects and English in the Italian community. Basic grammar rules will be studied and minor prose passages will be analyzed from the point of view of grammatical structure, lexical choice, and idiomatic expressions. The course will be conducted almost entirely in Italian. Use of the language laboratory is highly recommended.

Exclusion: OAC Italian or Grade 13 Italian or ITAA01; ITAA10

**Correbron:** It is strongly recommended that students enrolled in this course take ITAA03 concurrently with it.

**Session:** Winter Day

J. Campana

Offered every year

**ITAA01Y Intermediate Italian I**

Telephone ID #: 08620163

An intensive review of grammar, with drills, exercises, and conversation.

The course concentrates on explaining and practicing the more difficult parts of Italian grammar. This will alternate with reading and discussion of passages of modern Italian prose and poetry. The student will be asked to prepare written grammar exercises, as well as to write comments or summaries of the readings delivered in class. The course will be conducted in Italian wherever possible.

Exclusion: ITAA01, ITAA02, ITAA25, ITAA25S

**Preliminary:** ITAA01 or OAC Italian or Grade 13 Italian

**Correbron:** It is strongly recommended that students enrolled in this course take...
ITAL35 Intermediate Conversation
TelephoneNumber: 086-20353
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 conversations in readings or in discussions focusing on Italian culture and civilization. Students will be expected to prepare topics of common interest for discussion in class by doing background reading on selected topics. Vocabulary specialization of those topics. At least one oral report and two short compositions are required and will be evaluated.
Course: ITA201 or ITA211
Section: Winter Day
A. Franceschetti
Offered every year

ITAL411Y Intermediate Italian II
TelephoneNumber: 08621163
A continuation of ITA411. The course concentrates on expanding and perfecting the more difficult parts of Italian grammar. This will alternate with reading and discussion of passages of modern Italian prose and poetry. The student will be expected to prepare written grammar exercises, as well as to write compositions on the readings discussed in class or on topics of general interest. The course will be conducted in Italian. Exclusion: ITA205; ITA230, ITA240, ITA250, ITA251, ITA252
Prerequisite: ITA411
Corequisite: It is strongly recommended that students enrolled in this course take ITA411 concurrently with it.
Section: Winter Day
J. Campagna
Offered every year

ITAL419Y Language Practice
TelephoneNumber: 08630163
An advanced language practice focusing on complex problems of Italian grammar. The course is designed to encourage students an opportunity to improve their knowledge of written and oral Italian on an advanced level. Specific points of grammar, syntax, and style will be discussed and explained 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 analyses, summaries, and paraphrases. Exclusion: ITA250, ITA251, ITA252
Prerequisite: ITA201 or ITA211
Section: Winter Day
D. McAuliffe
Offered every year

ITAL429Y Practical Translation
TelephoneNumber: 08620535
Practice in translating from English to Italian and from Italian to English, combined with analysis and discussion of a wide variety of texts in terms of type of language and style of expression. Course time is devoted to increasing the student's proficiency. Examples of colloquial, literary, technical, and business expression will be translated and analyzed. Exclusion: ITA210, ITA211, ITA240
Corequisite: ITA210 or ITA211
Section: Winter Day
A. Franceschetti
Not offered 1993-94

ITAL429E Introduction to Modern and Contemporary Literature
TelephoneNumber: 08632233
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 emerged, and to the major modern themes of the individual in society. Texts include works by Goldoni, Manzoni, Leopardi, Verga, D'Ancastone, Pirandello, Pavese, and Calvino. This course will be conducted in Italian and will be the continuation of lectures and discussion. Exclusion: ITA221; ITA220, ITA226
Prerequisite: ITA201 or ITA211
Section: Winter Day
D. McAuliffe
Offered every year

ITAL429X Survey of Italian Literature from the Middle Ages to the Renaissance
TelephoneNumber: 08632153
An introduction to the major literary movements, masterpieces, and authors from the beginning of Italian literature to the end of the sixteenth 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 "Dante Studi Nuovi," Dante's Divine Comedy, Petrarch's Canzoniere, Boccaccio's Decameron, Politian's Stanze, Machiavelli's Prince, Aretino's Orlando Furioso, and Tasso's Gerusalemme Liberata. Lectures and discussion in Italian. A one-hour tutorial will be provided for those who need additional help with the Italian language. Exclusion: ITA220
Prerequisite: ITA201 or ITA211
Section: Winter Day
A. Franceschetti
Offered every year

ITAL471 Italian Cinema
TelephoneNumber: 08667153
A survey of the development of Italian cinema from World War II to the present. Films by Bertolucci, Antonioni, Fellini, Pasolini, and other post-war Italian directors will be shown during the course, which will meet four hours per week. If enrollment in the discussions, students will be required to write a brief review on four films, and an end-of-term essay for which a computer project (a short film on a scenario) may be submitted. This course is open both to students with no previous knowledge of Italian language and culture and to specialists in Italian. Exclusion: ITA250; ITA251
Prerequisite: ITA201 or ITA211
Offered every year

ITAL489-494, ITAS455-459
ITAL490Y Supervised Reading
These courses are designed to provide advanced students with an opportunity to pursue independent study on specific aspects of Italian literature and language of their own choice. The students are expected to do most of the reading on their own and to meet regularly with a faculty member to discuss problems arising from the chosen topic of study. The teaching method and the evaluation will vary according to the subject matter and the individual student. Interested students should contact the Discipline Representative. Exclusion: ITA250-494, ITAS455-959.

ITAL497Y
Prerequisite: One full-course equivalent in Italian literature.
Section: Winter Day
Staff
Offered every year

Courses Not Offered in 1992-93

ITAL331Y Dante's Divine Comedy
Exclusion: ITAC37Y, ITAC321
ITAL340 Advanced Composition
Exclusion: ITA404; ITA450, ITA452
Prerequisite: ITA201 or ITA211
ITAL409E Comparative Translation of Italian and French
Prerequisite: ITA301 or ITA311 plus PREB10 or FREN100 or permission of instructor.
ITAL200F Modern Italy
Exclusion: ITM18, ITA202, ITA245
Prerequisite: ITA201 or ITA211
ITAL31Y Dante and Medieval Culture
Exclusion: ITA201, ITA221
Prerequisite: ITA201 or ITA211; a course in Italian Literature such as ITAC22 and IATIC22 is recommended but is not required.
ITAL45F The Seventeenth-Century Italian Novel in Transition
Exclusion: ITA405; ITA222
Prerequisite: ITA201 or ITA211; a course in Italian literature such as ITAC22 and ITAC23 is recommended but is not required.

Language and Literature
The Specialist Programme in Language and Literature is no longer offered but students currently enrolled in it will be allowed to complete the programme.
Minor Programme in German Language
Seven full-course equivalents as follows:
GERA01Y Introductory German
GERA09Y Language Practice I
GERB02Y Intermediate German
GERB10Y Language Practice II
GERC01Y The Last Hundred Years
GERC03Y History of the German Language
GERC07F Language in a Literary Context
GERC09F Language Practice III
GERC60Y Advanced German
LIN01Y General Linguistics

Minor Programme in Modern Greek
Students must complete four full-course equivalents as follows:
1. CLA01Y or CLA02Y
2. GERK01Y
3. Two other full-course equivalents from:
   GKRK02, GKRK03, GKRK04, GKRK05

Minor Programme in Italian
Seven full-course equivalents, as follows:
Option A (for students who have no prior knowledge of Italian or its dialects):
1. ITAL01Y Introductory Italian
2. ITAL09Y Language Practice
3. ITAL03Y Conversation II
4. ITAL03F Intermediate Conversation
5. ITAL10Y Intermediate Italian I
6. ITAL20Y Advanced Italian
7. ITAL22F Introduction to Modern and Contemporary Literature
8. ITAL23F Survey of Italian literature from the Middle Ages to the Renaissance
9. One and one-half full-course equivalents from the following:
   ITAL02Y, ITAL09F, ITAL20Y, ITAL20F, ITAL22FS, ITAL23FS

Minor Programmes in the Humanities

Major Programmes in Spanish
Seven full-course equivalents as follows:
SPA01Y Introductory Spanish
SPA02Y Introductory Spanish Language Practice
SPA03Y Intermediate Spanish
SPA04F Phonetics
SPA05Y History of the Spanish Language
SPA06Y Advanced Spanish
SPA09Y The Civilization of Spain I
SPA10Y The Civilization of Spain II

Minor Programmes

Minor Programme in Modern Greek
Students must complete four full-course equivalents as follows:
1. CLA01Y or CLA02Y
2. GERK01Y
3. Two other full-course equivalents from:
   GKRK02, GKRK03, GKRK04, GKRK05

Minor Programme in Italian
Seven full-course equivalents, as follows:
Option A (for students who have no prior knowledge of Italian or its dialects):
1. ITAL01Y Introductory Italian
2. ITAL09Y Language Practice
3. ITAL03Y Conversation II
4. ITAL03F Intermediate Conversation
5. ITAL10Y Intermediate Italian I
6. ITAL20Y Advanced Italian
7. ITAL22F Introduction to Modern and Contemporary Literature
8. ITAL23F Survey of Italian literature from the Middle Ages to the Renaissance
9. One and one-half full-course equivalents from the following:
   ITAL02Y, ITAL09F, ITAL20Y, ITAL20F, ITAL22FS, ITAL23FS

Minor Programmes in the Humanities

Major Programmes in Spanish
Seven full-course equivalents as follows:
SPA01Y Introductory Spanish
SPA02Y Introductory Spanish Language Practice
SPA03Y Intermediate Spanish
SPA04F Phonetics
SPA05Y History of the Spanish Language
SPA06Y Advanced Spanish
SPA09Y The Civilization of Spain I
SPA10Y The Civilization of Spain II

Minor Programmes

Minor Programme in Modern Greek
Students must complete four full-course equivalents as follows:
1. CLA01Y or CLA02Y
2. GERK01Y
3. Two other full-course equivalents from:
   GKRK02, GKRK03, GKRK04, GKRK05

Minor Programme in Italian
Seven full-course equivalents, as follows:
Option A (for students who have no prior knowledge of Italian or its dialects):
1. ITAL01Y Introductory Italian
2. ITAL09Y Language Practice
3. ITAL03Y Conversation II
4. ITAL03F Intermediate Conversation
5. ITAL10Y Intermediate Italian I
6. ITAL20Y Advanced Italian
7. ITAL22F Introduction to Modern and Contemporary Literature
8. ITAL23F Survey of Italian literature from the Middle Ages to the Renaissance
9. One and one-half full-course equivalents from the following:
   ITAL02Y, ITAL09F, ITAL20Y, ITAL20F, ITAL22FS, ITAL23FS

Minor Programmes in the Humanities

Major Programmes in Spanish
Seven full-course equivalents as follows:
SPA01Y Introductory Spanish
SPA02Y Introductory Spanish Language Practice
SPA03Y Intermediate Spanish
SPA04F Phonetics
SPA05Y History of the Spanish Language
SPA06Y Advanced Spanish
SPA09Y The Civilization of Spain I
SPA10Y The Civilization of Spain II

Minor Programmes

Minor Programme in Modern Greek
Students must complete four full-course equivalents as follows:
1. CLA01Y or CLA02Y
2. GERK01Y
3. Two other full-course equivalents from:
   GKRK02, GKRK03, GKRK04, GKRK05

Minor Programme in Italian
Seven full-course equivalents, as follows:
Option A (for students who have no prior knowledge of Italian or its dialects):
1. ITAL01Y Introductory Italian
2. ITAL09Y Language Practice
3. ITAL03Y Conversation II
4. ITAL03F Intermediate Conversation
5. ITAL10Y Intermediate Italian I
6. ITAL20Y Advanced Italian
7. ITAL22F Introduction to Modern and Contemporary Literature
8. ITAL23F Survey of Italian literature from the Middle Ages to the Renaissance
9. One and one-half full-course equivalents from the following:
   ITAL02Y, ITAL09F, ITAL20Y, ITAL20F, ITAL22FS, ITAL23FS
Latin

Courses are offered in introductory Latin (LATC01, LATC02) and Latin literature (LATC31, LATC32, etc.).
LATC01Y Introductory Latin
LATC32F Supervised Reading
LATC40Y

For further information see under Classical Studies

Linguistics

Discipline Representative: J.D. Woods (287-7172)

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 to make the sound system of any given language?); morphology (how do sounds combine to form words?); syntax (how do we build sentences?); and semantics (the study of meaning in all its possible forms). Linguistics studies how language changes over time and how forms 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 to speak a language, or a second or subsequent language? Can language tell us about how the mind works? What's wrong when language goes wrong?); sociologists (sociolinguistics -- what is the relationship between language and society? How does your use of language tell people about your social role and relations?); and anthropologists (etholinguistics -- what is the relationship between language and culture? What does your use of language tell others about your cultural values?); and computer scientists (much of computer language "syntact" is based on that of human language); and students/teachers of languages (a testifier, in particular, has to be keenly aware of the specific nature of the language she/he is teaching). Ultimately, a strong awareness of language is important, even in seemingly unrelated areas, such as law, where a knowledge of syntax and semantics is of primary importance.

Specialist Programs in Linguistics

Supervisor: J.D. Woods (287-7172)

The Specialist Program in Linguistics: Three full-course equivalents, as follows:

1. LINA01Y General Linguistics or 
LINA05Y Functional Linguistics
2. LINB01Y Practical Language Study and LINB05F Phonetics
3. LINC05S Phonology and LINC11Y Syntax
4. These three C- or D-level full-course equivalents in LIN including PLB05F, PLC245 and PLD55F or an equivalent discipline, as approved by the Supervisor of Studies.
5. Two further full-course equivalents in LIN including PLB05F, PLC245 and PLD55F.
6. One full-course equivalent from among the following courses:
   FRED25Y Introduction to French Linguistics
   PACS04Y Theoretical and Practical Phonetics
   SPAC04F Comparative Stylistics
   SPAC04G General History of the French Language
   SPAC05S The French Language in Canada
   SPAC12F The History of the Spanish Language

*Students should check three courses for prerequisites.
7. Two full-course equivalents in a language which is not the student's native language.
8. One full-course equivalent in a third language or equivalent demonstrated ability.

Please note: Neither LINA04S nor LINB05Y can be counted toward the Specialist Programme in Linguistics.

Major Program in Linguistics

Supervisor: J.D. Woods (287-7172)

The Major Programme in Linguistics requires seven full-course equivalents, as follows:

1. LINA01Y General Linguistics or 
LINA05Y Practical Language Study
2. SPAC04F Comparative Stylistics
3. SPAC05S The French Language in Canada
4. SPAC12F The History of the Spanish Language
5. SPAC12F The History of the Spanish Language
6. SPAC12F The History of the Spanish Language
7. SPAC12F The History of the Spanish Language

See also courses in Linguistics
LIN401Y General Linguistics: The Theory of Language
Telephone ID #: 20010163
An introduction to the various methods and theories of language analysis, and to the relationships between language and mind, language and culture, and language and society.
Topics include: 1. The categories and functions of language analysis and the relationships between language and mind, language and culture, and language and society; 2. The major theories of language analysis and the relationships between language and mind, language and culture, and language and society; 3. The methods and theories of language analysis and the relationships between language and mind, language and culture, and language and society.
Enrollment limited to 35 students per section.
Exclusions: LIN401Y LIN130
Session: Winter Day
R. Smyth
Offered every year.

LIN401Y Practical Language Analysis
Telephone ID #: 20020163
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 or LIN405, students will analyze phonological, morphological, and syntactic data from a representative variety of language types. Problems 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.
Exclusions: LIN401Y
Session: Winter Day
R. Smyth
Offered every year.

LIN4025 Phonology: Sound Systems of Language
Telephone ID #: 20030023
Theoretical issues of phonology. We will attempt to cover both general theory and several aspects of Non-linear theory (Underdetermination, as well as the theories of Lexical, Metrical, and Audience-specific phonology).
This course will assume familiarity with phonological problem-solving methods; we will read, discuss, and evaluate basic works from the recent theoretical outilined above. Students are strongly urged to take LIN400Y in the same year as LIN4025.
Exclusion: LIN401Y
Session: Winter Day
R. Smyth
Offered every year.

LIN4025 Second Language Learning
Telephone ID #: 20030023
The focus will be on how language learners acquire language. The course examines theories of the linguistic, cognitive, neurological, social, and personality variables that affect second language acquisition. Implications for second language teaching are also discussed.
Prerequisite: One full-course equivalent in LIN and PSY401 and one full-course equivalent in either LIN (including PLIB525) or PSY.
Session: Winter Day
R. Smyth
Not offered 199394
Offered 199495

LIN411Y Investigation of a Language
Telephone ID #: 20042163
Linguistic theory put to work through analysis of a language which is not familiar to the student in the course. The language will vary from year to year, depending on who it is taught in the course.
The aim of this course is to allow advanced students of Linguistics to apply their theoretical knowledge of the field to the practical problem of creating a grammar of a language. Normally, we work on a non-Indo-European language, with the help of a native speaker of that language. The course requires a great deal of participation and teamwork from all its members. We aim to produce a grammar of the language by the end of the year.
Exclusion: LIN41111 LIN41111
Session: Winter Day
R. Smyth
Offered 199394, 199495.

LIN4245 Psycholinguistics
Telephone ID #: 194215533
Experimental evidence for theories of how humans produce and understand language, and how language is represented in the brain. Topics will include the perception and categorization of speech sounds, retrieval of words from memory during speech and language, the use of grammatical knowledge in planning and understanding sentences, production and comprehension of longer stretches of discourse, and the role of metonymy in language processing.
Exclusion: JLP3134 (JLBP525)
Session: Winter Day
R. Smyth
Offered every year.

LIN4245 Developmental Psycholinguistics
Telephone ID #: 194215533
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.
Exclusions: LIN4151, (PLIB525) JLP3134 (JLBP525)
Prerequisites: One full-course equivalent in LIN and PSY401, and one full-course equivalent in either LIN (including PLIB525) or PSY.
Session: Winter Day
R. Smyth
Not offered 199394
Offered 199495

LIN4245 Language Learning
Telephone ID #: 20030253
The course examines theories of the linguistic, cognitive, neurological, social, and personality variables that affect second language acquisition. Implications for second language teaching are also discussed.
Prerequisite: One full-course equivalent in LIN and PSY401 and one full-course equivalent in either LIN (including PLIB525) or PSY.
Session: Winter Day
R. Smyth
Not offered 199394
Offered 199495

LIN4245 Investigation of a Language
Telephone ID #: 20042163
Linguistic theory put to work through analysis of a language which is not familiar to the students in the course. The language will vary from year to year, depending on who it is taught in the course.
The aim of this course is to allow advanced students of Linguistics to apply their theoretical knowledge of the field to the practical problem of creating a grammar of a language. Normally, we work on a non-Indo-European language, with the help of a native speaker of that language. The course requires a great deal of participation and teamwork from all its members. We aim to produce a grammar of the language by the end of the year.
Exclusion: LIN41111 LIN41111
Session: Winter Day
R. Smyth
Offered 199394, 199495.

LIN4245 Psycholinguistics
Telephone ID #: 194215533
Experimental evidence for theories of how humans produce and understand language, and how language is represented in the brain. Topics will include the perception and categorization of speech sounds, retrieval of words from memory during speech and language, the use of grammatical knowledge in planning and understanding sentences, production and comprehension of longer stretches of discourse, and the role of metonymy in language processing.
Exclusion: JLP3134 (JLBP525)
Session: Winter Day
R. Smyth
Offered every year.

LIN4245 Developmental Psycholinguistics
Telephone ID #: 194215533
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.
Exclusions: LIN4151, (PLIB525) JLP3134 (JLBP525)
Prerequisites: One full-course equivalent in LIN and PSY401, and one full-course equivalent in either LIN (including PLIB525) or PSY.
Session: Winter Day
R. Smyth
Not offered 199394
Offered 199495

LIN4245 Language Learning
Telephone ID #: 20030253
The course examines theories of the linguistic, cognitive, neurological, social, and personality variables that affect second language acquisition. Implications for second language teaching are also discussed.
Prerequisite: One full-course equivalent in LIN and PSY401 and one full-course equivalent in either LIN (including PLIB525) or PSY.
Session: Winter Day
R. Smyth
Not offered 199394
Offered 199495

LIN4245 Investigation of a Language
Telephone ID #: 20042163
Linguistic theory put to work through analysis of a language which is not familiar to the students in the course. The language will vary from year to year, depending on who it is taught in the course.
The aim of this course is to allow advanced students of Linguistics to apply their theoretical knowledge of the field to the practical problem of creating a grammar of a language. Normally, we work on a non-Indo-European language, with the help of a native speaker of that language. The course requires a great deal of participation and teamwork from all its members. We aim to produce a grammar of the language by the end of the year.
Exclusion: LIN41111 LIN41111
Session: Winter Day
R. Smyth
Offered 199394, 199495.
Management

Chair: Professor Sundifer Boles

The 1992-93 academic calendar year will see the introduction of important changes in the Management programmes at Scarborough College. These changes are guided by our mission statement, which follows:

The Scarborough programme in management will provide high-quality pre-professional management education within the context of a liberal arts education for students interested in managerial careers; it will provide introductory education about organizational life for any student enrolled at Scarborough College; and it will develop and support a group of faculty who are actively engaged in research that contributes to the advancement of management knowledge and the quality of instruction.

The first part of the mission statement will be achieved through the Specialist programmes in Management, which are intended to prepare students for careers in the public or private sectors or in academia. The second part of the mission statement will be achieved through our introductory Management courses (MGT102). The third part of the mission statement refers to faculty development initiatives now underway.

The College does not currently offer the Bachelor of Commerce (B. Com.) degree. Students who wish to obtain the B. Com. must either transfer or enter another college of the University (at the both Scarborough and Etobicoke campuses). Because of differences in course and degree requirements, such transfer should take place as early as possible in a student's career. Since many Commerce courses at the St. George Campus are subject to limits on enrollment, Scarborough College students should not assume that they will be able to take Commerce courses at that campus where a comparable course is not available at Scarborough.

Admission to graduate studies leading to the Master of Business Administration (MBA) degree is open to all qualified graduates (fifteen or twenty course degrees) regardless of the subject or discipline studied at the undergraduate level. Students contemplating graduate study would be well advised to include MGT102 in their undergraduate programme. 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 all Management courses and on admission to Programmes. Information on how to apply for admission to a Programme and to limited enrolment courses will be available prior to the end of classes in April.

Programme 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.

Programmes

There are three Specialist Programmes in Management, which are described below. These programmes are not identical. The Specialist Programmes differ from the Specialist Programmes offered in the 1991-92 calendar. In addition, the Major Programme in Management is no longer being offered. Students admitted to the Specialist or Major programmes in 1991-92 will be allowed to complete their programmes as described in the time of admission. Alternatively, they may wish to follow one of the programmes described below. They should consult with the Supervisor about this choice.

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 L, OAC Calculus, and OAC Algebra/Geometry or Finite Math. In the first year, they will take the courses required for the programmes 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 ECO303 or ECO302. 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, ECO202, and MAT282 or MAT286. Students should be aware that calculus is required in both of these programmes. The normal course to meet this requirement is MAT282. Students may also meet this requirement by taking both MAT280 (or MAT133 at St George) and MAT284.

Students applying for admission on completion of their first year of studies will be considered for admission to the programmes 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 completed at least 8 credits.

3. Admission after First Year
   Admission of students during second year (that is, until they have completed up to 10 full courses) will also be on the basis of all grades received. Students who have completed more than ten full courses will not normally be considered for admission to the 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 enrolment limits, a student admitted to the Programme will have access to the full range of offerings in
the discipline. Specific Programme requirements are listed below.

Specialist Programme in Management

Superior: TBA

This programme is designed to give students a broad exposure to all the functional areas of management, or to combine studies in Management and other disciplines, such as the programmes in Management and Languages described below. Calculus is not required.

The Programme requires the completion of the following minimum requirements at part of a twenty-course degree:

1. MGT402, MGT502, MGT603, MGT702, MGT803, MGT904, MGT604, MGT605
2. at least 0.5 FCE of courses emphasizing management skills, chosen from MGT606, MGT402, MGT604, MGT605, MGT606, MGT607
3. at least 0.5 FCE of courses in strategic management, chosen from MGT711, MGT712, MGT713, MGT714, MGT715, MGT716, MGT717
4. at least 0.5 FCE of the joint specialist programme in Management and Language and Language Supervisors: The Management and Economics and Humanities Divisions have cooperated to develop joint programmes in Management and French, German, Italian, or Spanish. The Management requirements for any of these joint 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 C. Civilization, as follows:

**FRENCH**
A. FRE401, FRE501, one full course equivalent from FRE601, FRE702, FRE804, FRE905
B. at least one full-course equivalent from FRE101, FRE102
C. at least one full course from FRE202, FRE203, FRE204, FRE205
D. An additional full course in FRE

**GERMAN**
A. GER401, GER402, GER501, GER502, GER503
B. GER601
C. GER701

**ITALIAN**
A. ITA601 and ITA701 or ITA801 and ITA903, ITA601 or ITA701, ITA903, ITA901
B. one full course from ITA404, ITA505
C. one full course from ITA504, ITA505, ITA601

**SPANISH**
A. SPA401, SPA402, SPA501, SPA504* B. SPA502 C. SPA601 or HUM144* students taking HUM144 are not required to take SPA504

Students must take at least 10 FCEs in Management listed as requirements 1 - 5 of the Management curriculum plus the Language requirements.

Specialist Programme in Management and Economics

Superior: TBA

This programme is designed to give students a broad exposure to all 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 at part of a twenty-course degree:

1. MGT402, MGT502, MGT603, MGT702, MGT803, MGT904, MGT604, MGT605, MGT606, MGT607
2. at least 0.5 FCE of courses emphasizing management skills, chosen from MGT606, MGT402, MGT604, MGT605, MGT606, MGT607
3. at least 0.5 FCE of courses emphasizing strategic management, chosen from MGT711, MGT712, MGT713, MGT714, MGT715, MGT716, MGT717, MGT718
4. MGT801, MGT802, MGT803

**NOTE:** A single course may not be counted towards both requirements 2 and 3.

5. ECO402, ECO504, ECO608, ECO609, and 1 FCE of C-level economics courses

6. MATA28 or MATA28 and MATB41

7. Four additional FCEs from courses other than MGT716CO, to include at least 1 FCE from among a set of Humanities courses which emphasize writing skills.

Specialist Programme in Management and Economic Theory

Superior: TBA

This programme is designed to prepare students for graduate work in economics while providing a firm grounding in management. Quantitative topics are treated rigorously by means of calculus.

The Programme requires the completion of the following minimum requirements at part of a twenty-course degree:

1. MGT402, MGT502, MGT603, MGT702, MGT803, MGT904, MGT604, MGT605, MGT606, MGT607
2. at least 0.5 FCE of courses emphasizing management skills, chosen from MGT606, MGT402, MGT604, MGT605, MGT606, MGT607
3. at least 0.5 FCE of courses emphasizing strategic management, chosen from MGT711, MGT712, MGT713, MGT714, MGT715, MGT716, MGT717, MGT718

**NOTE:** A single course may not be counted towards both requirements 2 and 3.

4. ECO402, ECO504, ECO608, ECO609, and 1 FCE of C-level economics courses

5. MATA28 or MATA28 and MATB41

6. ECO504

7. Four additional FCEs from courses other than MGT716CO, to include at least 1 FCE from among a set of Humanities courses which emphasize writing skills.
MGTB03F Management Accounting
Telephone ID #: 33532033
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. Enrolment is limited to students registered in programmes requiring this course.
Exclusions: MGTB02 (COMB01)
Prerequisites: ECOAM02 or ECOAM03 (ECOAM001)
Corequisites: MGTB02
Session: Winter Day, Winter Evening

MGBB2Y Organizational Behaviour
Telephone ID #: 33527676
This course is designed to introduce students to the theoretical and practical aspects of managing human behaviour in organizational settings. The course will critically assess organizational behaviour within four interrelated levels of analysis: the overall organization, the individual, groups, and linking processes. Topics covered include leadership, power, communication, stress, motivation, job satisfaction, careers, group dynamics, organizational design, and organizational culture. Enrolment is limited to students registered in programmes requiring this course.
Exclusions: UCSCB275Y
Prerequisites: MGT602Y
Session: Winter Day, Summer Evening

MGTCH1Y Intermediate Financial Accounting
Telephone ID #: 33531063
An examination of theoretical and practical accounting problems involved in income determination and balance sheet valuation. The course builds extensively on the material in MGTB02 and to a lesser extent, MGTB03. Potential students should review thoroughly the basic accounting model, preparation of financial statements and accounting principles prior to the start of the course.
Limited enrolment: 60.
Exclusions: COMC04
Prerequisites: MGTB02 and MGTB03 or (MGTB02 (COMB01))
Corequisites: MGT602Y
Session: Winter Day, Winter Evening

MGTCH3F Principles of Finance
Telephone ID #: 33531075
The objective of this course is to provide students with the theoretical knowledge and skills to make optimal corporate financial decisions. It deals with general approaches for valuing cash flows. Enrolment is limited to students in programmes requiring this course.
Exclusions: MGTB02 (COMB01)
Prerequisites: MGTB02 (MGTB03 or COMBO1) ECOAM03 or ECOAM04
Session: Winter Day, Winter Evening

MGTCH4F Principles of Marketing
Telephone ID #: 33530433
An introduction to basic concepts and tools of marketing designed to provide students with a conceptual framework for the analysis of marketing problems. The focus is on the nature and scope of marketing in an organizational and societal setting. The subjects include an examination of buyer behaviour, market segmentation and target marketing; the basic elements of the marketing mix; price, promotion and distribution policies; marketing planning, evaluation and control.
Exclusions: COMC04
Prerequisites: MGTB03 or (MGTB01 (COMB01))
Session: Winter Day, Winter Evening, Summer Evening

MGTCH55 Introduction To Marketing Management
Telephone ID #: 33530553
A pragmatic case and readings oriented approach to develop the analytical skills required of marketing managers. The course is designed to help improve skills in analyzing marketing situations, identifying market opportunities, developing marketing strategies, formulating sales approaches, and defending these recommendations, and defending these recommendations.
Limited enrolment: 60.
Exclusions: COMC04
Prerequisites: MGTB04 (COMC04)
Session: Winter Day, Winter Evening, Summer Evening

MGTCH45 Intermediate Management Accounting
Telephone ID #: 33530563
An examination of various cost accumulation and performance evaluation systems and decision-making tools. Topics include job and process costing, flexible budgeting, and variance analysis and cost allocations.
Exclusions: (COMB01)
Prerequisites: MGTB01
Session: Winter Day, Winter Evening

MGTCH9S Intermediate Finance
Telephone ID #: 33532053
This course provides a detailed examination of approaches for dealing with financial decisions faced by the corporation. Included are issues such as capital budgeting, leasing, mergers and acquisitions, and alternative financing methods.
Limited enrolment: 60
Exclusions: MGTB02 (COMB01)
Prerequisites: MGTB01, ECOAM69 or ECOAM01 (ECOAM01)
Session: Winter Day

MGTCH18 Management Control Systems
Telephone ID #: 33531053
The course objective is to develop a thorough understanding of planning and control systems in organizations, with an emphasis on behavioral implications. Case studies will be used to evaluate control structures and processes with some attention to multinational, service and non-profit organizations.
Limited enrolment: 60.
Exclusions: COMC04
Prerequisites: MGTB03 (MGTB01) and MGTB27 (JCSB27) or MGTB06
Session: Winter Evening

MGTCH15 Management Information Systems
Telephone ID #: 33531153
This course is intended to help students understand the information systems that are a critical component of modern organizations. The course covers the technology, design, and application of data processing and information systems, with emphasis on management judgement and decision making.
Limited enrolment: 60.
Exclusions: MGTB03 (MGTB01 or COMB01) and MGTB27
Session: Winter Evening

MGTCH15Y Income Tax
Telephone ID #: 33531563
An examination of the broad principles of federal income tax in Canada and of the detailed provisions involved in the taxation of business enterprises.
Limited enrolment: 60.
Exclusions: COMC01
Prerequisites: Completion of at least ten full-course equivalents including MGTB02 or MGTAD01 (COMA01) and MGTB03 or MGTB01
Session: Winter Evening

MGTCH28S Personnel Administration
Telephone ID #: 33532323
An introduction to the basic concepts, theories and practices of personnel management. Topics include recruitment, selection, training, development, performance appraisal, compensation and human resource planning. Affirmative action, discrimination and equal pay issues will be examined in relation to human rights legislation.
Limited enrolment: 60.
Exclusions: COMC04
Prerequisites: MGTB02 (JCSB27)
Session: Winter Day

MGTCH28S Organizational Design
Telephone ID #: 33532523
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.
Exclusions: COMC25
Prerequisites: MGTB02Y (JCSB27Y)
Session: Winter Day

MGTCH28S Comparative Organizational Behavior
Telephone ID #: 33532563
This course studies the impact on organizational strategies of different environments, discussing, among other questions, differences between nations. The course may also deal with societal attitudes in reference to trends and patterns of work life.
Limited enrolment: 60.
Exclusions: COMC26
Prerequisites: MGTB27Y (JCSB27Y)
Session: Winter Day

MGTCH3Y The Legal Environment of Business
Telephone ID #: 33533063
An intensive examination of those aspects of the law that most directly affect the operation of a business. Limited enrolment: 60.
Exclusions: COMC50
Prerequisites: Completion of at least ten full-course equivalents including MGTB02 or MGTB01 (COMA01)
Session: Winter Day, Summer Evening
MGTCH55 Management and Organization in Fiction
Telephone ID #: 3353536
This course analyzes the role of decision making in management with realistic, public, and private sector organizations. The course explores the ethical dilemmas, organizational politics, and career choices that managers can expect to face. Limited enrollment: 60.
Exclusions: (CMIC355)
Prerequisites: MGT127Y (JCR3127)
Session: Winter Day
MGTCH65 Management Skills
Telephone ID #: 3353636
This course examines the role of personal management skills in the business world. Students discuss techniques for negotiation, team-building, and effective persuasion. Written, verbal, and non-verbal communication is emphasized by the extensive use of classroom demonstrations, student presentations, and role-playing. Limited enrollment: 60.
Prerequisites: MGT127Y (JCR3127) and MGT404 (COMC404)
Session: Winter Evening
MGTCH66 Entrepreneurship
Telephone ID #: 3353836
This course will discuss the role of the entrepreneur in establishing and managing a small business, dealing with such problems as cash management, establishing an up-to-date management information system, overseeing production, maintaining up-to-date technology, and ensuring a positive cash flow. The course will also include a case study.
Limited enrollment: 60.
Prerequisites: MGT127Y (JCR3127), MGT403 (OR MGT401 (COMC401))
Session: Winter Day
MGTCH74 Public Management
Telephone ID #: 3353452
The course deals with key public sector management processes (priority-setting, budgeting, human resources, crisis management) making extensive use of cases, case studies, and simulations intended to develop the student's management skills.
Limited enrollment: 60.
Exclusion: (CMIC424)
Prerequisites: MGT127Y (JCR3127), POLA50 (POLA01 or POLA80) or POLB54
Session: Winter Day
MGTCH75 International Business Management
Telephone ID #: 3353465
This course deals with problems faced by managers of international business, such as trade agreements, marketing, location of operations, dealing with local cultures in marketing and human resource management, and negotiations with host governments.
Limited enrollment: 60.
Prerequisites: MGT127Y and MGT127Y (JCR3127)
Session: Winter Evening
MGTCH75Y Industrial Relations
Telephone ID #: 3353461
A study of industrial relations in the Canadian setting. Topics include: industrial relations theory and systems, history, philosophy and structure of unionism, labor law, and collective bargaining and simulation exercises.
Limited enrollment: 60.
Exclusion: (ICEC54)
Prerequisites: Completion of at least ten full-course equivalents including ECOA02 or ECOA03 and ECOM01
Session: Winter Evening
MGTCH76C Introduction to Operations Management
Telephone ID #: 3353605
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. Enrollment is limited to students registered in programs requiring this course.
Prerequisites: ECOA02, ECOB10 (or one-semester non-calculus introduction to quantitative methods)
Session: Winter Day
MGTCH74F Analysis for Decision-Making
Telephone ID #: 3353743
Introduction to Management Science approaches to dealing with decision-making situations, including discussions of problem definitions, objectives, constraints, model construction and verification, development of solutions, sensitivity analysis and interpretation. Topics include: decision analysis, mathematical programming, network methods, dynamic programming and waiting-line models.
Exclusions: MGT127Y (JCR3127)
Prerequisites: MATH29, ECOB04
Corequisite: ECOB09 (ECOB12)
Session: Winter Day
MGTCH75S Operations Management: A Mathematical Approach
Telephone ID #: 3353755
Introduction to the broad scope and major strategic, tactical, and operational decisions in Operations Management. Topics include: forecasting, long-range capacity planning, location and layout of facilities, aggregate planning, project management, inventory control, and production scheduling.
Exclusions: MGT127Y (JCR3127), MGT200
Prerequisite: MGT127Y
Session: Winter Day
MGTCH85S Retail Management and Strategy
Telephone ID #: 3354853
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 theoretical and, for accounting, topics may also include international taxation and corporate finance and leverage.
Limited enrollment: 60.
Exclusion: (COMD504)
Prerequisites: MGT127Y (JCR3127), MGT200
Session: Winter Evening
MGTCH95S Strategic Marketing
Telephone ID #: 3354853
A strategic marketing course which integrates conceptual and applied material both within marketing and between marketing and other disciplines such as finance and organizational behaviour through experience rather than instruction. Students manage a "firm" in a computer simulated market.
Limited enrollment: 60.
Exclusion: (COMD504)
Prerequisites: MGT127Y (JCR3127), MGT200
Session: Winter Day
MGTCH105 Advanced Questions in Accounting
Telephone ID #: 3354553
An advanced course in Management Science and Operations Management. Students will use methods for designing, evaluating, and delivering services. Topics include: location of service facilities, allocation of service resources, capacity planning of service systems, workforce scheduling, routing problems, and the application of simulation and optimization algorithms to problems in the context of accounting theory and concepts with some discussion of audit issues.
Mathematics

Discipline Representative: P. Selick (287-7270)

The development of mathematics was induced by the inherent need to describe and analyse the 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.

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 Mathematics

Specialist Programme in Mathematics

Specialist Programme in Mathematics and Statistics

Specialist Programme in Physical Sciences

Major Programme in Mathematical Sciences (Mathematics)

Mathematics 145

MATA6Y Calculus

Telephone ID: 20412663

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 a calculator with memory and the exponential logarithmic and trigonometric functions and their inverses.

MATA8Y 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. MATA28Y is a demanding course which will equip the student for most sciences and for further work in mathematics.

Exclusion: MATA28, MATA27, MATA55;

MAT130, 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

MATA8Y Introduction to Optimization

Telephone ID: 20412663

R² as a model space in economics, constraints, functions of one and several variables, graphs, Derivatives, partial derivatives, differentials, 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 extrema, graph sketching, word problems. Matrix algebra, linear equations. Optimization in several variables. Contour maps, Lagrange multipliers. Linear programming. This course is illustrated throughout by examples drawn from Economics. Students must have a calculator with memory and the exponential and logarithmic functions.

Exclusion: MATA26, MATA27, MATA55,

MATA41, MATH131, 135, 139, 149

Prerequisite: OAC Calculus and one of OAC Algebra and Geometry or OAC Finite Mathematics

Computer: ECON01Y (ECON01Y)

Session: Winter Day

NOTE: This course is intended for certain students in some Management and/or Economics Programmes. It does not satisfy the requirements for any Programme in the Physical Sciences except the Programme Computer Science for Data Management, and 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 MATA8Y is appropriate to their needs.

MATB38F Geometry I

Telephone ID: 20412833

Euclidean geometry: isometrics; symmetry groups. Platonic solids, tessellations, crystallography. Projective geometry: projective spaces, homogeneous coordinates and their transformations, duality, cross-ratio, perspectives, the fundamental theorem, conics. Models of non-Euclidean geometries. Introduction to finite geometries and coloring theory.

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: MATA25, MATA24, 324, 325

Prerequisite: MATA40 or MAT(A45)

Computer: MATB31 or MAT(B44)

Session: Winter Day

MATB31F Algebra I

Telephone ID: 20412133

Groups: definition and elementary examples, symmetry groups, matrix groups, permutation groups. Equivalence relations, cosets, conjugacy classes.

Theorems of Lagrange, Cayley, Cauchy, Class formula and Sylow theorems. Finite abelian groups: modular arithmetic, Euclidean algorithm, lcm, gcf, classification.

Exclusion: MATA44, MATA48, MATA247, 360

Prerequisite: MATA40 or MAT(445)

Session: Winter Day

MATB32S Algebra II

Telephone ID: 20413253

Rings: ideals, quotient rings, homomorphisms, domains and their fields of fractions. Euclidean domains and their arithmetic. Polynomial rings, roots of polynomials, extension fields. Structure theorem for modules over a principal ideal domain, with application to finitely generated abelian groups and normal forms of matrices.

Exclusion: MATA40, MAT(B40)

Prerequisite: MATB31F or MAT(B44)

Session: Winter Day

MATB41F Techniques of the Calculus of Several Variables I

Telephone ID: 20424133

Vector algebra in R³, lines and planes in R³, complex numbers, matrices.

MATH197S Market Research

Telephone ID: 33542563

This course studies and reviews major investment problems, in particular investment in stocks and bonds, risk and return characteristics, efficient markets, evaluation, and portfolio management. Limited enrolment: 60.

Exclusion: (CEC(0275)

Prerequisite: MGT(03) or MGT(032)

CEC(02)

Session: Winter Day

MGTD40(05 Supervised Reading Course

This course is intended for upper-level students whose interests are not covered in one of the other Commerce 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 Commerce performance has been well above average. Students interested in this course should consult with the Supervisor of Studies for Commerce well in advance.

Exclusion: (MG(0360) (COM(060)

Prerequisite: Permission of instructor

Session: Summer Day, Summer Evening, Winter Day, Winter Evening

Courses Not Offered 1992-93

MGT197S Market Research

Exclusion: (COM(027)

Prerequisite: MGT(030) (COM(035), ECO(11) or equivalent.

Computer background recommended.
determinants and linear equations.
Functions of several variables, partial
derivatives, gradient, tangent plane,
Jacobian matrix and chain rule. Taylor
series. Extreme problems. External
problems with constraints and Lagrange
multipliers. Multiple integrals, spherical
and cylindrical coordinates, law of
transformation of variables.
Exclusions: (MATH05Y) (MATH50) and
MATH28Y; MATH20, 214, 235, 239, 257
Prerequisite: MATH26 (MATH27)
Session: Winter Day

MATB425 Techniques of the Calculus of
Several Variables II
Telephone ID: 20435235
Fourier series. Vector fields in $\mathbb{R}^n$.
Divergence and curl. Curves, parametric
representation of curves, path and line
integrals. Surface, parametric
representations of surfaces, surface
integrals. Green’s, Gauss’, and Stokes’
theorems. Introduction to differential
normals, forms, total derivative.
Exclusions: (MATH05Y) (MATH50),
MATH285; MATH230, 234, 235, 239, 257
Prerequisite: MATH41
Session: Winter Day

MATB435 Introduction to Analysis
Telephone ID: 20434355
The least upper bound principle for $\mathbb{R}$,
limits in $\mathbb{R}$ and $\mathbb{R}^n$, continuous functions in
one and two variables, space filling curves
and nowhere differentiable functions,
existance of extremals on closed and bounded
sets, mean value theorems and the
fundamental theorems of Calculus, the
Riemann integrals.
This course is designed for students
whose interest in mathematics has been
stimulated by their experience in
MATH20 and MATH41, and who wish
with analytic techniques which are essential for more
advanced work. There will be a fundamental emphasis on rigorous analytic proofs.
Exclusions: (MATH57) (MATH55) (MATH50) (MATH285)
Prerequisite: MATH20, MATH40 or
(MATH45)
Corequisite: MATH42
Session: Winter Day

MATB785 Introduction to Number Theory
Telephone ID: 20437030
Some properties of integers, prime
numbers, congruences. Quadratic residues.
Diophantine equations. Rational
approximation. Three lectures per week.
Exclusions: MATH404 or (MATH45)
Prerequisite: MATH20 or (MATH27)
Session: Winter Day

MATC525 Graph Theory and Algorithms
for its Applications
Telephone ID: 20433233
Graphs, subgraphs, isomorphism, trees,
connectivity, Euler and Hamiltonian
properties, matchings, vertex and edge
colourings, planarity, network flows and
strongly regular graphs. A selection of
applications to such problems as
interfacing, personnel assignment, task
forming, travelling salesman, tournament
scheduling, experimental design and
finite geometries. Explicit
algorithms and their computational
complexity will be discussed whenever
possible.
Exclusions: (MATH132)
Prerequisite: MATH315 or (MATH44 or
MATH285) and at least one other 1.2-level
course in Mathematics or Computer Science
Session: Winter Day

MATC495 Galois Theory
Telephone ID: 20434953
Fields of quotients, residue fields, finite
fields, algebraic and transcendental field
extensions, primitive elements, Galois
extensions, review of group theory, the
fundamental theorem of Galois theory,
calculations and examples, the classical
problems of angle trisection and
construction of regular polygons.
Exclusions: MATH300
Prerequisites: MATH312 or (MATH48)
Session: Winter Day

MATC51F Differential Equations I
Telephone ID: 20435133
First order equations: separable,
homogeneous, linear, exact, integrating
factors, Bernoulli, exponential
growth, cooling bodies. Second order
equations: reducible, linear, constant
coefficients, Euler equations. Wronskian,
undetermined coefficients, variation of
parameters. Initial value problems:
higher order linear equations, vibrations,
electric circuits, laws of Kepler and Newton.
Power series solutions and method of
Laplace transforms.
Exclusions: (MATH285), APMS31, MATH235, 234, 239
Prerequisite: MATH40Y, MATH420 or
(MATH45)
Corequisite: MATH41F (MATH45)
Session: Winter Day

MATC535 Real Analysis
Telephone ID: 20435363
Sets and functions, Zorn’s lemma, cardinal
arithmetic, Schroeder-Bernstein theorem.
Lebesgue measure and integration,
convergence theorems, derivatives and
integrals. Continuity, compactness and
connectedness in metric and topological
spaces. Banach space and linear operators.
Exclusions: (MATH35), (MATH35)
Prerequisites: MATH318, 350
Prerequisites: MATH31, MATH32 or
(MATH45) and MATH45 and
MATH463 or (MATH55).
Session: Winter Day

MATC545 Differential Geometry I
Telephone ID: 20435453
Parameteric curves in space. Serret-Frenet
formulas, curves with specified curvature
and torsion. Plane curves, isoperimetric
inequality, four vertex theorem, curves of
constant width. Parametric surfaces in
space. Gauss Weingarten formulas,
measure of curvature. Theorema Egregium,
surfaces with specified first and second
fundamental forms. Curves on surfaces,
gaussoids, parallel transport. Gauss-Bonnet
Theorem. Geometry on surfaces of constant
curvature.
Exclusions: MATH36
Prerequisites: MATH40 or (MATH45) and
(MATH46) or MATH48 or
(MATH285)
Corequisite: MATH35
Session: Winter Day

MATC565 Differential Equations II
Telephone ID: 20435653
Existence and uniqueness of solutions,
Global qualitative analysis of solutions and
Stability Theory. Pointcaré-Bendixon
Fixed point linear systems. Boundary value
Partial differential equations. Separation of
variables. Heat, wave and Laplace
equations. Bessel functions. Introduction to
calculation of variations or difference
equations.
Exclusions: APMS256, APMS31, APMS46,
MATH244, 435
Prerequisites: MATHC51 or (MATH55)
Session: Winter Day

Course Not Offered in 1992-93

MATB05Y Analysis
Exclusions: MATH27, MATH34, MATH42,
MATH57
Prerequisite: MATH404 or
(MATH45) and MATH45
Prerequisite: MATH285 or
(MATH55) and MATH45
Session: Winter Day

MATC365 Complex Analysis II
Exclusions: MATH25, MATH245, 334, 335
Prerequisite: MATH30
Prerequisite: MATH30
Prerequisite: MATH49
Session: Winter Day

MATC439 Linear and Multilinear Algebra
Exclusions: MATH45
Prerequisites: MATH43 or
(MATH49)
Session: Winter Day

MATC66P Complex Analysis I
Exclusions: MATH39, 334
Prerequisites: (MATH45) or
(MATH55) or MATH42
Prerequisite: MATH49
Session: Winter Day

MATC655 Complex Analysis
Exclusions: MATH39
Prerequisite: MATH30
Prerequisite: MATH30
Prerequisite: MATH49
Session: Winter Day

MATC31F Combinatorics
Exclusions: MATH36
Prerequisite: MATH31 or
(MATH44 or CS318) and
at least one other 1.2-level
course in Mathematics or
Computer Science

Music

Discipline Representative: Wau, R. Bowen
(212) 714-04
Music courses at 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
study now.
Most of the upper-level courses assume
that the student has some ability in reading
music of a simple nature, and all continuing
students are encouraged and helped to
acquire this skill as soon as possible. All
students should consider taking advantage of
the various opportunities that exist in the
College for practical music making,
particularly the series of Supervised
Performance Courses.
Meyer and Kirn Program in Music
History are offered (see below). Music is also
a component of the Specialist
Programme in the Arts and the Specialist Programme in Arts Administration (see pages 55 and 23).

Major Programme in Music History
Supervisor: Wm. R. Brown (287.7194)

Students are required to complete a total of seven full-course equivalents in Music and related areas.
The seven courses will be made up as follows:

1. MUSA01Y Introduction to Music
2. MUSI07F Materials of Music I
3. MUSI21S Materials of Music II

Students selected from MUSI07F must take another half-course equivalent in Music in consultation with the Supervisor.

Two full-course equivalents chosen from MUSI courses. Two full-course equivalents must be selected from MUSI300-306; either MUSI03 or MUSI04 is required.

One additional full-course equivalent in Supervised Performance

One additional full-course equivalent in Supervised Performance

Minor Programme in Music History
Supervisor: Wm. R. Brown (287.7194)

Students are required to complete a total of four full-course equivalents in Music. The four courses will be made up as follows:

1. MUSA01Y Introduction to Music
2. MUSI07F Materials of Music I
3. MUSI21S Materials of Music II

One and one half full-course equivalents from MUSI01-016

Three full-course equivalents from the C or D level

MUSA01Y Introduction to Music

Telephone ID #: 225.0103

A study of the basic materials, principles of design, and cultural significance of representative works of Western music from the Middle Ages to the present day.

Through examples drawn from a variety of periods, students are introduced to ideas of musical style and design. These concepts are of great help in listening to and understanding works by composers as different from each other as Josquin, Bach, Beethoven, Stravinsky and Duke Ellington. We also look at the ways in which culture and society influence what composers write. Through intelligent, directed listening and through discussion and writing, students learn how to approach each piece of music on its own terms and, at the same time, how to communicate their ideas to others. No previous musical training is required, but students with some musical experience should also find this introduction valuable.

Upper level courses, for which MUSA01Y is the prerequisite, assume that the student has some ability in reading music. Students who wish to continue to such upper level courses but who need additional preparation in fundamentals are encouraged to take the optional tutorial offered in the second term as a supplement to MUSA01Y.

Exclusion: MUSI10F and MUSA205 or MUSA10F and MUSI305; MUSI100, MUSI121.

Session: Winter Day

Wm. R. Brown

Offered 1993/94 and 1994/95

MUSA11FS Listening to Music

Telephone ID #: 225.1113

For MUSA11S: 226.1113

An introduction to the language of music for non-musicians.

In the noise-polluted environment in which we live, people often seek 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 experience of intelligent listening. Through examples from a variety of musical sources, including 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 how it is constructed.

Theoretical concepts are kept to a minimum. No previous musical experience is required.

Exclusion: MUSA01 (MUSA10/20/30), MUSI100

Session: Summer Evening and Winter Day

Wm. R. Brown and J. Mayo

Not offered 1993/94

MUSA12F Music of the World's Peoples

Telephone ID #: 226.1233

An introduction to the musical cultures of the world's peoples.

In our multi-cultural society, we are constantly exposed to sounds which do not follow the familiar patterns of musical expression. Accordingly, it is the purpose of this course to help the student to appreciate the music of other cultures and to recognize the variety and richness of musical invention in the world.

Courses will include selected examples from Africa, China, India, Japan, the Middle East and South America. In addition, the student will be introduced to Western Folk music and to the music of the native peoples of North America. Lectures will be devoted to a non-technical discussion of music, musical instruments and the place of music in society. No previous musical experience is required.

Exclusion: MUSI200

Session: Summer Evening

A. Sanger

Not offered 1993/94

MUSI20F Music of the Twentieth Century

Telephone ID #: 226.1253

Tracing the various trends of music in the present century from Debussy to the most recent electronic and multi-media presentations.

Selected compositions of Debussy, Schoenberg, and Stravinsky are analyzed in detail to demonstrate the nature of the revolution which took place in music during the early years of the century. The course continues with a survey of the most significant composers and techniques of the succeeding seventy years. Topics to be discussed include the development of some composers to tonality, developments in twelve-tone serialism; the influence of jazz; electronic music; the emergence of new aesthetic attitudes.

Exclusion: MUSI221

Prerequisite: MUSI100 (MUSI300)

Session: Winter Day

J. Mayo

Not offered 1993/94 or 1994/95

MUSI30F Music in the Middle Ages

Telephone ID #: 226.2033

A study of music in the period between the birth of Christ and the early 15th 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 secular song of the troubadours and trouvères, and the rise of polyphony are included. In addition, the aesthetic, philosophical, and sociological context for medieval music will be considered.

Exclusion: MUSI221

Prerequisite: MUSI100 (MUSI300)

Session: Winter Day

Wm. R. Brown

Not offered 1993/94 or 1994/95

MUSI04F Materials of Music I

Telephone ID #: 226.2033

The basic materials of music from the Middle Ages to the present.

A study of elementary harmony and musical forms designed to equip the student with simple analytical and compositional techniques. Aural aspects of the subject will be emphasized, providing a sure foundation for the development of the student's "inner ear" — that is, the ability to hear mentally what is written and to write down what the inner ear perceives.

Exclusion: Royal Conservatory of III Harmony or equivalent; MUSI817

Session: Winter Day

J. Mayo

Offered 1993/94 and 1994/95

MUSI14F Jazz

Telephone ID #: 226.2143

A history of jazz from its African and European roots to present day experiments.

This course will be 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: Winter Day

J. Mayo

Not offered 1993/94

MUSI03F The Symphony

Telephone ID #: 226.3033

A study of the music written in the symphonic form from the Classic period until the present day.

The changing concept of the symphony investigated through close study
of representative examples of the genre. 
Prerequisite: MUS403 (MUS105)
Session: Winter Day
J. Mayo
Not offered 1993/94 or 1994/95

MUSIC155 Beethoven
Telephone ID #: 22631153
A study of selected symphonies, quartets and sonatas by Ludwig van Beethoven. The course traces the changes in the composer’s style and technique from his development under the influence of the Classic masters to his contribution to the new dramatic expression of the nineteenth century.
Prerequisite: MUS403 (MUS105)
Session: Winter Day
J. Mayo
Not offered 1993/94 or 1994/95

MUSIC165 Materials of Music II
Telephone ID #: 22632165
A continuation of MUS207.
Exclusion: MUS204, MUS304
Prerequisite: MUS307 (MUS171) or Royal Conservatory Gr Ili harmony or equivalent.
Session: Winter Day
A. Replogle
Offered 1993/94 and 1994/95

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. Enrollment 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.

MUS305H Supervised Performance I - MUS110 Performance 1: 
Telephone ID #: 22652443
The practical study of a wide range of music from the choral repertoire. 
Students work as members of Scarborough 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 at conjunction with members of the instrumental performance program. Previous experience is desirable but not essential. 
The course meets 2 hours per week for rehearsal with MUS121H and MUS125H. 
Exclusion: MUS120 and MUS110
Prerequisite or Corequisite: Any A-level course in Music or MUS114F/S
Session: Winter Day
J. Mayo
Offered 1993/94 and 1994/95

MUS321H Supervised Performance II - 
Chorus
Telephone ID #: 22622437
A continuation of MUS121H. 
Exclusion: MUS110
Prerequisite: MUS121 or MUS120
Session: Winter Day
J. Mayo
Offered 1993/94 and 1994/95

MUS321H Supervised Performance II - 
Instrumental
Telephone ID #: 22622341
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. 
Each group will meet for 2 hours per week for rehearsal with MUS121H and MUS126H. 
Exclusion: MUS120
Prerequisite or Corequisite: Any A-level course in Music or MUS114F/S
Session: Winter Day
C. Walter
Offered 1993/94 and 1994/95

MUS323H Supervised Performance II - 
Instrumental
Telephone ID #: 22622343
A continuation of MUS122H. 
Exclusion: MUS110
Prerequisite: MUS122 or MUS120
Session: Winter Day
C. Walter
Offered 1993/94 and 1994/95

MUS325H Supervised Performance III - 
Chorus
Telephone ID #: 22622454
A continuation of MUS121H. 
Exclusion: MUS110
Prerequisite: MUS121 or MUS120
Session: Winter Day
J. Mayo
Offered 1993/94 and 1994/95

MUS325H Supervised Performance III - 
Instrumental
Telephone ID #: 22622343
A continuation of MUS122H. 
Exclusion: MUS110
Prerequisite: MUS122 or MUS120
Session: Winter Day
J. Mayo
Offered 1993/94 and 1994/95

Neuroscience
Neuroscience encompasses aspects of a variety of disciplines that have the common goal of understanding how the nervous system works. Techniques borrowed from constituent disciplines like anatomy, physiology, biochemistry, psychology and pharmacology are being used to unravel some of the mysteries of the brain and its mechanisms of action. Investigators in Neuroscience have also made fundamental contributions in the clinical aspects of neurology and rehabilitation.

The Major and Specialist Programmes in Neuroscience are administered jointly by Psychology and Biology and primarily include courses from these disciplines. They have been designed for students who are interested in pursuing graduate or medical training in Neuroscience. The Specialist Programme has a heavy laboratory component and students are encouraged to become actively involved in ongoing research. The specialities represented at Scarborough Campus include behavioral neuroscience, neuroanatomy, neuropharmacology, neurochemistry and cell biology (applied to the nervous system).
Specialist Programme in Neuroscience
Supervisor: N.W. Milgram (Office: S513)

1. All of the following 9.5 full-course equivalents. Relevant Neuroscience courses from the St. George or Erindale campuses may only be used to satisfy a requirement with the permission of the Supervisor of Studies.

- BIOA13Y Introduction to Biology
- PSYCH20J General Chemistry
- PSYB01Y Data Analysis in Psychology
- or (BIOB20F/5S)
- or (BIOL20F/5)
- BIOL17Y Animal Physiology
- BIOL10F/1S General Chemistry
- PSYB115S Human Brain and Behaviour
- PSYB115P Human Brain and Neuronal Mechanisms
- PSYB115Y Developmental Biology
- PSYB115Y Psychological Laboratory
- PSYB115Y Physiological Laboratory
- PSYB115Y Psychobiology of Sensory Systems and Their Development
- PSYB115Y Organism: Chemistry I
- PSYB115Y Introduction to Biostatistics
- 0.5 full-course equivalent from the following:
  - Calculus
  - Principles of Physics
  - Concepts of Physics
  - Computer Basics (Computer Programming)
  - Scientific Computing: Introduction to Computing

2. At least 1.5 full-course equivalents from the following with no more than 0.5 full-course equivalent from the supervised study courses:

- PSYD41F/5S Current Topic in Physiology
- PSYD41F/5S Physiological Psychology
- PSYD41F/5S Neuroplasticity: Mechanisms and Function
- PSYD41F/5S Psychological Aging: Intraventricular Neurobiology
- NROC39Y Supervised Study in Neuroscience
- NROC39Y Thems in Neuroscience

3. At least 1.0 full-course equivalent from the following:

- PSYB01F/5s Psychological Research Laboratory
- PSYB01F/5s Experimental Design in Psychology
- PSYB01F/5s Learning Laboratory
- PSYB01F/5s Psychological Microcomputer Laboratory
- BIOC54H Laboratory in Biochemistry
- BIOC54H Vertebrate Histology
- BIOC54H Molecular Biology of the Gene

4. At least 1.0 full-course equivalent from the following:

- PSYB10F/5S Data Analysis in Psychology
- or PSYB10F/5S Introduction to Statistics
- or BIOL17Y Animal Physiology
- or CHIM20Y General Chemistry
- 2.0 full-course equivalent from the following:
  - Genetics
  - Developmental Biology
  - Morphogenesis
  - Cell Biology
  - General Biology of Organisms
  - Animal Behaviour
  - Evolutionary Biology
  - Theoretical Foundations of Biology I
  - Molecular and Cellular Cytogenetics
  - Evolutionary Genetics

5. At least 1.0 full-course equivalent from the following:

- PSYB10F/5S Abnormal Psychology
- PSYB10F/5S Sensation and Perception
- PSYB10F/5S Perception and Cognition
- PSYB10F/5S Memory and Cognition
- PSYB10F/5S History of Psychology (Current Topic in Animal Learning)
- PSYD41F/5S (Research in Operant Conditioning)
- PSYB210F/5S Disorders of Speech and Language

6. At least 1.0 full-course equivalent from the following:

- PSYD41F/5S Current Topic in Physiological Psychology
- PSYD41F/5S Psychological Aging: Intraventricular Neurobiology
- NROC39Y Supervised Study in Neuroscience
- NROC39Y Thems in Neuroscience

- Students planning on graduate work in Neuroscience are advised that undergraduate courses in Physics and Calculus may be required for that graduate programme.

- Major Programme in Neuroscience

- Students who might consider completing a four-year degree are encouraged to include in the electives below the following courses: CHIM394Y (CIMB34Y) and BIOC54S so that they would be eligible for the Specialist Programme.

- Thems in Neuroscience

- Students need to complete the first year in full-time study (or equivalent) to be eligible for a second year of full-time study (or equivalent).

- 2.0 full-course equivalent from the following:
  - Genetics
  - Developmental Biology
  - Morphogenesis
  - Cell Biology
  - General Biology of Organisms
  - Animal Behaviour
  - Evolutionary Biology
  - Theoretical Foundations of Biology I
  - Molecular and Cellular Cytogenetics
  - Evolutionary Genetics

- At least 1.0 full-course equivalent from the following:
  - Abnormal Psychology
  - Sensation and Perception
  - Perception and Cognition
  - Memory and Cognition
  - History of Psychology (Current Topic in Animal Learning)

- PSYD41F/5S (Research in Operant Conditioning)
- PSYB210F/5S Disorders of Speech and Language

- At least 1.0 full-course equivalent from the following:
  - Genetics
  - Developmental Biology
  - Morphogenesis
  - Cell Biology
  - General Biology of Organisms
  - Animal Behaviour
  - Evolutionary Biology
  - Theoretical Foundations of Biology I
  - Molecular and Cellular Cytogenetics
  - Evolutionary Genetics

- At least 1.0 full-course equivalent from the following:
  - Abnormal Psychology
  - Sensation and Perception
  - Perception and Cognition
  - Memory and Cognition
  - History of Psychology (Current Topic in Animal Learning)

- PSYD41F/5S (Research in Operant Conditioning)
- PSYB210F/5S Disorders of Speech and Language

- Major Programme in Neuroscience

- Students who might consider completing a four-year degree are encouraged to include in the electives below the following courses: CHIM394Y (CIMB34Y) and BIOC54S so that they would be eligible for the Specialist Programme.

- Thems in Neuroscience

- Students need to complete the first year in full-time study (or equivalent) to be eligible for a second year of full-time study (or equivalent).

- 2.0 full-course equivalent from the following:
  - Genetics
  - Developmental Biology
  - Morphogenesis
  - Cell Biology
  - General Biology of Organisms
  - Animal Behaviour
  - Evolutionary Biology
  - Theoretical Foundations of Biology I
  - Molecular and Cellular Cytogenetics
  - Evolutionary Genetics

- At least 1.0 full-course equivalent from the following:
  - Abnormal Psychology
  - Sensation and Perception
  - Perception and Cognition
  - Memory and Cognition
  - History of Psychology (Current Topic in Animal Learning)

- PSYD41F/5S (Research in Operant Conditioning)
- PSYB210F/5S Disorders of Speech and Language

- At least 1.0 full-course equivalent from the following:
  - Genetics
  - Developmental Biology
  - Morphogenesis
  - Cell Biology
  - General Biology of Organisms
  - Animal Behaviour
  - Evolutionary Biology
  - Theoretical Foundations of Biology I
  - Molecular and Cellular Cytogenetics
  - Evolutionary Genetics

- At least 1.0 full-course equivalent from the following:
  - Abnormal Psychology
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  - Perception and Cognition
  - Memory and Cognition
  - History of Psychology (Current Topic in Animal Learning)

- PSYD41F/5S (Research in Operant Conditioning)
- PSYB210F/5S Disorders of Speech and Language

- At least 1.0 full-course equivalent from the following:
  - Genetics
  - Developmental Biology
  - Morphogenesis
  - Cell Biology
  - General Biology of Organisms
  - Animal Behaviour
  - Evolutionary Biology
  - Theoretical Foundations of Biology I
  - Molecular and Cellular Cytogenetics
  - Evolutionary Genetics

- At least 1.0 full-course equivalent from the following:
  - Abnormal Psychology
  - Sensation and Perception
  - Perception and Cognition
  - Memory and Cognition
  - History of Psychology (Current Topic in Animal Learning)
Cognate Courses

Philosophy students should seriously consider the advantages of studying a language, especially French, German, Greek, 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 Arts, History, and Humanities which will help to supplement the Programs of many students. In particular, students should consider the following courses: HUM404Y, Prolegomena, HIS401Y, European World: ASTAR0Y, Introduction to Astronomy: BI010Y, Introduction to the Biological Sciences; such courses provide important intellectual and historical background for the study of Philosophy.

Specialist Programme in Philosophy

SU200Y: W. E. Seager (387-7151)
Students must complete at least fourteen full-course equivalents including:

1. PHIL401Y Fundamental Questions of Philosophy
   - PHIL207F Ethics
   - PHIL207F Belief, Knowledge, and Truth
   - PHIL307F Symbolic Logic
   - PHIL307F Existence and Reality
   - Four full-course equivalents in B-level Philosophy courses
   - Four full-course equivalents in C-level or D-level Philosophy courses
   - Three additional full-course equivalents in Philosophy courses
   - Two full-course equivalents from cognate courses in other disciplines agreed upon after consultation with the Supervisor. Students are encouraged to follow a sequence of language courses in fulfillment of this requirement.

Major Programme in Philosophy

SU200Y: W. E. Seager (387-7151)
Students must complete at least seven full-course equivalents in Philosophy including:

1. PHIL401Y Fundamental Questions of Philosophy
2. Two of the following full-course equivalents:
   - PHIL307F Ethics
   - PHIL207F Belief, Knowledge and Truth
   - PHIL307F Symbolic Logic
   - PHIL307F Existence and Reality
3. Two half-courses from PHIL404Y to PHIL404Y and PHIL400Y to PHIL400Y
4. Two full-course equivalents in C-level or D-level Philosophy courses.
5. Two additional full-course equivalents in Philosophy courses.

NOTE:
In certain cases, students combining a Major Programme in Philosophy with a Programme in another discipline may elect to modify the Major Programme. Students electing modifications must have the approval of the Supervisor.

PHIL401Y Fundamental Questions of Philosophy

Telephone ID #: 2451063
A discussion of some of the fundamental questions of philosophy. What is good reasoning? What is irrational and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justifiable? Is materialism true? Are humans free?

Some of the world's major philosophers will be studied with a view to answering these and other basic questions which have confronted us throughout history.

The course will be divided into the following lecture sections: L01, L02, L03, L30. The problems addressed are substantially the same in each section, though the readings and approach may vary from section to section, depending on the instructor.

Session: Winter Day (30 Winter Evening) Staff
Offered every year

PHIL201F Ethics

Telephone ID #: 2452013
A study of ethical problems and situations in ethics, such as the relativism of values, the justification of moral depictions, ethical systems, utilitarianism, deontological.

Exclusion: PHIL275, 156
Session: Winter Day
N. Soter
Offered 1994-95

PHIL205F Social Issues

Telephone ID #: 2452015
An examination of the moral questions surrounding some of the following: abortion, capital punishment, human sexual relations, homophobia, abortion, etc., with respect to the major aspects of the philosophy of Plato.

Session: Winter Day
G. Nagel
Offered 1994-95
PHIL4325 Aristotele I
Telephone ID #: 24544535
A study of central themes in the philosophy of Aristotele.
Exclusion: MA 2105, 305
Session: Winter Day
G. Nagel
Offered 1994-95

PHIL5050 Symbolic Logic I
An introduction to formal techniques of reasoning, sentential logic, and quantification theory or predicate logic. The emphasis is on appreciation of and practice in techniques for, for example, formal analysis of English statements and arguments, and for construction of clear and rigorous proofs. Topics of more theoretical interest are presented in the text in D. Kalish, R. Montague and G. Mat. Logic: Techniques of Formal Reasoning. Exclusion: (MPH351), PHIL243
Session: Winter Evening
H. Sobel
Offered every year

PHIL6045 Metaphysics
Telephone ID #: 24539535
A consideration of problems in metaphysics. A more detailed description will be available in the Spring of 1992.
Exclusion: PHIL231
Session: Winter Day
J. P. Answeeney
Offered every year

PHIL7570 Philosophy of Science
Telephone ID #: 24537535
A study of philosophical questions raised by the natural sciences. We shall discuss: alternative conceptions of theory structure; the role of scientific methodology in exploring and predicting phenomena; and the rationality and progress of science.
Exclusion: (PHIL701), PHIL355, BIOC706
Prerequisite: One course or half-course in Philosophy or in the Division of Science.
Session: Winter Day
W. Senge
Offered 1994-95

PHIL9135 Theory of Mind
Telephone ID #: 24538153
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 shall examine the nature of the mind, and such questions as what thinking is, and whether or not machines can have a mind.
Exclusion: PHIL240, 242
Session: Winter Evening
S. Sobel
Offered every year

PHIL9155 Ethics II
Telephone ID #: 24536151
Major twentieth-century ethical theories. Topics studied may include, for example, G.E. Moore's non-idealism, W.D. Ross' utilitarianism, J.L. Mackie's moral skepticism, and R.M. Hare's universal prescriptivism.
Exclusion: (PHIL701), PHIL375
Session: Winter Day
H. Sobel
Offered 1994-95

PHIL9465 Philosophy of the Early Modern Age II
Telephone ID #: 24534663
Philosophy in the eighteenth century. The political and economic changes of the early modern period, the abandonment of classical ideals in the arts, and the progress of science all combine to force eighteenth-century thinkers to abandon the seventeenth-century search for a stable rational order. In its place they put criteria and standards of the assessment of constantly changing ideas, and the accommodation of man to a world of change. This course will be a survey of the main thinkers of the period.
Exclusion: (PHIL474), PHIL210
Prerequisite: One full-course equivalent or half-course in Philosophy
Session: Winter Day
W. Senge
Offered 1994-95

PHIL9465 Philosophy in the Later Modern Age II
Telephone ID #: 24534853
A continuation of PHIL465. We will continue the discussion of Hegel, Nietzsche and Freud, and include Schopenhauer and Wittgenstein. Beginning with their thought about art, religion and science, we will go on to such topics as life, death, suffering and joy.
Session: Winter Day
G. Nagel
Offered 1994-95

PHIL9515 Symbolic Logic II
Telephone ID #: 24535153
A continuation of PHIL505.
The natural deduction system studied in Symbolic Logic I is extended to cover identity-definite descriptions. Special attention is paid to the restrictions of the identity calculus to "extensional" terms and formulas. Alternative treatments of definite descriptions, one that follows Frege, the other that follows Russell, are developed and compared. The text is D. Kalish, R. Montague and G. Mat. Logic: Techniques of Formal Reasoning.
Exclusion: (MPH351)
Prerequisite: (PHIL350), PHIL380
Session: Winter Evening
J.H. Sobel

PHIL9515 Seminar in Philosophy: Emotions
Telephone ID #: 24538333
A study principally of attempts by Spinoza and Freud to construct a theory of emotions, but some readings from contemporary authors. We will consider whether the emotions can and should be thought of rational controls, whether a person is always the best judge of her or his own emotions, and whether it makes sense to regard certain emotions (e.g. pity) as good and others (e.g. contempt) as bad.
Prerequisite: Two B-level half-courses in Philosophy
Session: Winter Day
G. Nagel

PHIL9535 Seminar in Philosophy: Feminism
Telephone ID #: 24536653
Selected themes in the philosophical tradition in dialogue with central issues in contemporary feminist theory. These may include: critical discussion of themes from Plato to Freud which have been used to justify the subordination of women, theories of how gendered identities are created; feminist conceptions of self, autonomy, ethics, or the state.
Exclusion: PHIL207
Prerequisite: Two B-level half-courses in Philosophy
Session: Winter Day
L. Lang

PHIL9750 Seminar in Philosophy: Topics in Philosophy and Literature
Telephone ID #: 24538735
A detailed description of this course will be available in Spring 1992
Session: Winter Day
W. Freeman-Sobel

PHIL9750 Seminar in Philosophy: Contemporary Analytic Philosophy
Telephone ID #: 24539853
An examination of contemporary developments in theories of mind, meaning, and truth.
Contemporary issues will be set up by tracing their development; after a brief look at classical Anglo-American views, we will consider the diagnostic work of Wittgenstein, Sellars, Goodman, and Ryle in depth. Current theories will be examined in terms of how they follow through and build on the lessons advanced by Wittgenstein et al. One main concern will be the opposition between internalism/internationalism and realism/anti-realism in current understanding of mind and meaning.
Prerequisite: Two B-level half-courses in Philosophy
Session: Winter Day
S. Sobel

PHIL9753 Seminar in Philosophy: Political Philosophy in the Twentieth Century
Telephone ID #: 24539253
An examination of some central philosophical problems of contemporary political philosophy.
A more detailed description of this course will be available later.
Prerequisite: Two B-level half-courses in Philosophy
Session: Winter Day
D. Cook

PHIL9753 Seminar in Philosophy: Ethics and Personal Identity
Telephone ID #: 24539333
The topic of this course will be known in the Spring of 1992
Session: Winter Day
W. Freeman-Sobel
Physical Sciences Scarborough

Physical Sciences Scarborough is a closely integrated group of specialist programmes emphasizing close coordination among traditionally distinct disciplines to educate students with an integrated view of science. Admission to the Physical Sciences Scarborough programme takes place in first year.

The following thirteen programmes lie within the Physical Sciences Scarborough group:

- Astronomy
- Mathematics and Physics
- Chemistry
- Computer Science
- Computer Science and Mathematics
- Computer Science and Statistics
- Co-Op Computer Science
- Earth Sciences
- Environmental Chemistry
- Mathematics
- Statistics
- Physical Sciences
- Terrains and Environmental Earth Sciences

Most programmes cover at least two cognate disciplines, and as a result 14 to 17 courses must be specified in a 24-course programme. Introductory courses in Physics and Calculus form a basis for all programmes, and it is intended that all programme students take these courses together. The choice of other introductory courses depends on the individual programme, ranging from the traditionally subject-oriented programmes to the environmental science ones. A special first year programme committee has overall responsibility for the introductory courses, including coordination and workload balancing so that students are not overburdened by the transition to University. The progress of students across their Physical Sciences courses will be monitored throughout the year, and counselling will be provided as appropriate. Students from the various programmes in higher years will take common courses with students in the same year, so that the cohort will retain a common identification. This will provide significant benefits for the students, particularly through encouraging communication across the disciplines involved. Common courses in the final year will serve to integrate the knowledge gained.

Early Teacher Project

The Early Teacher Project is designed to produce future high school teachers of Science and Mathematics. It has been developed in cooperation with the Faculty of Education, University of Toronto. The Physical Sciences Scarborough programmes are designed to lead to Honours Specialist Ontario Teacher Certification in one or more subjects. To participate students must continue to be registered in a Physical Sciences Scarborough Programme and participate in an orientation session in second year. Subsequently students will work with experienced teachers in classrooms of primary/secondary schools in the third and fourth years. There will also be a work placement component organized jointly by Scarborough College and the Faculty of Education.

The Early Teacher Project will count for academic credit (though not as part of the 20 course requirement of a degree). Successful completion of the Early Teacher Project, together with a Physical Sciences Scarborough Specialist Programme with a 2.5 GPA standing in the best five full course equivalents will guarantee admission to the Faculty of Education for at least thirty students each year.

Specialist Programme in Astronomy, Mathematics and Physics

Supervisors: C. C. Dyer, M. J. G. Lee

This programme requires 16 full-course equivalencies as listed below. The programme provides a good grounding in the main areas of astronomy, mathematics and physics. It is intended for students who wish to pursue a career in teaching or to acquire a broad understanding in these subjects before entering a career in government or industry.

First year:

- ASCA275: Introduction to Astronomy
- INTRO257: Introduction to Scientific Reasoning
- MATH102: Linear Algebra
- PHYS102: Calculus
- PHYS103: Principles of Physics

Second year:

- ASTB205: Celestial and Classical Mechanics
- CSCB285F: Computer Organization
- MATH104: Geometry I
- MATH317F: Algebra I
### MATB41F
Techniques of the Calculus of Several Variables II

### MATB42S
Techniques of the Calculus of Several Variables II

### MATB43S
Introduction to Analysis

### PHYB25S
Electricity and Magnetism

### Fourth Year:

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**Specialist Programme in Computer Science and Mathematics**

**Supervisor:** Dr. G. Capi (1971-1974)

This Programme provides a broad-based education in computer science and mathematics. It prepares students for a professional position in the computer field and is appropriate for students who wish to pursue a career in teaching or government and industry. It can also lead to graduate study.

**First year:**
- CSCI46S: Introduction to Computing
- CSCI46S: Computer Applications
- MATA26Y: Calculus
- PHY401Y: Principles of Physics

**Second year:**
- CSCI46S: Discrete Mathematics
- CSCI46S: Computer Organization
- MATA26Y: Calculus
- PHY401Y: Principles of Physics

**Specialist Programme in Computer Science and Physics**

**Supervisor:** Dr. J. Deier (1973-1976)

This Programme is available as an option in the CSci 46 Computer Science and Physical Sciences Programme. See listing under Co-op.

**First year:**
- CSCI46S: Introduction to Computing
- CSCI46S: Computer Applications
- MATA26Y: Calculus
- PHY401Y: Principles of Physics

**Second year:**
- CSCI46S: File Structures and Data Management
- CSCI46S: Discrete Mathematics
- CSCI46S: Computer Organization
- CSCI46S: Techniques of the Calculus of Several Variables I

**Co-operative Programme in Computer Sciences and Professional Sciences**

**Director:** Dr. H. Wittman (1971-1974)

This programme is designed for students in computer science and professional sciences. It combines academic study in computer science, and other disciplines in the physical sciences with work placement 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 or careers in computer science and related fields. It also provides an opportunity for students to pursue further education in computer science and related fields.
Admission to the Programme
a. Applicants from Grade 12/10th programmes (or equivalent) should indicate their choice of Scarborough College and the Co-Operative Programme in Computer Science and Physical Sciences on their 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 their work placement will depend upon the particular university courses they have already completed.

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. Enrollment is limited to a small number of applicants who are selected each year. Decisions on admissions are normally made annually in May and early June. To be considered for the first round of selection, co-op applications must be received by April 30, 1992. Therefore it is essential that the applicant apply to the University at least six weeks prior to this date.

Every student in a co-op programme is required to pay additional fees as established by the University for such courses as applied sciences, physical sciences, computer science, and the co-operative programme.

The Specialist (Co-operative) Programme in Computer Science and Physical Sciences
This programme requires twenty courses (four years) of study and two work terms of four months each. Exceptionally, with the agreement of the director and co-ordinator, a third work term may be allowed. Students are eligible for their first work term after their third year. Co-op 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 submit for evaluation a report for each work term.

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

- maintain a cumulative grade point average of at least 2.50
- receive a satisfactory evaluation for work term performance and work term reports
- be registered as a full-time student during study terms
- There are two courses of study offered within this co-operative programme. These will be outlined below as Option A: Computer Science and Physics and as Option B: Computer Science and Statistics. Note that courses used must not be taken in exactly the indicated order, but if an alternative ordering is adopted, care must be taken to ensure that pre-requisites are satisfied and other conflicts avoided.

Each student's programme requires the annual approval of the supervisor of studies.

Option A Computer Science and Physics
16 required courses

First Year
CS3255B, CS3A88, MAT2A07, MAT2A0Y, PHYA0Y

Second Year
CS3381R, CS3382F, CS3383R, CS3384F, MATB41F and MATB42S or MATB40Y

Third Year
PHYB125, PHYB125S, PHYB125H

Fourth Year
CS3309S, CS3324S, CS3350F, CS3351F, CS3352, MATC50F, PHYC12F, PHYC12S, PHYC12H, one full-course equivalent chosen from other C level Physical Sciences Division courses

* Students currently registered in year three or year four of the programme should consult the 1990-91 Calendar and the programme supervisor.

Option B Computer Science and Statistics
14.5 required courses

First Year
CS3245E, CS3A48, MAT2A07, MAT2A0Y, PHYA0Y

Second Year
CS3224S, CS3181H, CS3182H, CS3184F, MATB42S, MATB43S, STAB32F, STAB47S

Third Year
CS3224S, CS3A48, CS3C78F, (STAC50F and STAC52S) or (STAC52F and STAC52S), plus one half-course equivalent from C level statistics courses, CS3C54F, and 300 and 400 level statistics courses on the St. George Campus

Fourth Year
CS3255F, CS3C55F, PSCD301F, PSCD302S, (STAC57F and STAC42S) or (STAC52F and STAC52S), plus one half-course equivalent from C level statistics courses, CS3C54F, and 300 and 400 level statistics courses on the St. George Campus.

NOTE: IT IS THE STUDENT'S INDIVIDUAL RESPONSIBILITY 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 full-course equivalents.

Normally, students return to their studies after each work term (and must be registered in courses after the completion of their last work term).

CS3C01-C33H Computer Science and Physical Sciences Co-op Work Term

Work terms are an integral part of the co-op curriculum. Practical work experience courses are available. Students can choose courses that are appropriate, related field is selected with study terms to enhance academic studies and develop professional and personal skills.

Work term reports are required at the completion of each work term.

Continuation in a Co-op Programme is based on a student's ability to meet both the academic and work term requirements. To be eligible for work term students must be in good standing in the Programme and must have completed 10 courses. Course credit of 0.5 full-course equivalent is granted for each four month work period. Work term credits are in addition to the 20 full-course degree requirements and are graded on a Credit, No Credit system. There are no additional course fees for work terms.

Specialist Programme in Terrain and Environmental Earth Sciences (TEES)
Supervisor: N. Eyles (287-7231)

There is increasing global concern with the effects of environmental pollution and geological hazards on society. This is reflected in an escalating demand in industry, education and government for graduates with an environmental geology training. The Terrain and Environmental Earth Sciences (TEES) Specialist Programme provides students with a comprehensive multidisciplinary background necessary to understand and work with current environmental problems. The TEES programme specifies 7.5 of the 20 courses required for a four-year degree, drawing on expertise and facilities both on the Scarborough and St. George Campuses. The programme includes two field courses, each of two weeks duration, taken at the end of the second and third years. These will familiarize students with field techniques in a wide range of geological environments. Locations vary; in recent years field camps have been held in Appalachia, Costa Rica and the Rocky Mountains of Alberta and British Columbia.

Several other courses in the TEES Programme contain a local fieldwork component concerned with urban environmental geology problems in the Toronto area.

First year:
BSC501Y Introductory Biology
CHEM12Y General Chemistry
CHEM131Y Calculus
CHEM141Y Principles of Physics

Second year:
CHEM211Y Analytical Chemistry I
CHEM222Y Physical Chemistry I
CHEM233Y Analytical Chemistry II
GLG205Y Sedimentology
GLG206Y Introductory Mineralogy
GLG207Y Introductory Microscopy
GLG211Y Geomorphology
MATB41F Techniques of the Calculus of Several Variables I

Third year:
CHEM344Y Organic Chemistry I
GLG218F Structural Geology
GLG318F Petrology I
GLG328F Petrology II
Specialist Programme in Mathematics

Supervisor: E. Moore (287-7267)

The Specialist Programme in Mathematics is designed to give students a thorough grounding in the main areas of Mathematics, together with an understanding of the close relationship between Mathematics and other Sciences. It is aimed at students who may be interested in teaching, law, government or industry, or who may decide to pursue a career in research.

First year:
- CSCA58F Introduction to Computing
- CSCA68S Computer Applications
- MATM04Y Linear Algebra
- MATM20Y Calculus
- PHYA01Y Principles of Physics

Second year:
- MATB09F Geomety I
- MATB10F Algebra I
- MATB12S Algebra II
- MATB13F Techniques of the Calculus of Several Variables I
- MATB14F Techniques of the Calculus of Several Variables II
- MATB20S Introduction to Analysis
- STAB02S Statistics

Third year:
- MATC00F Galois Theory
- MATC01F Differential Equations I
- MATC02S Differential Equations II
- MATC03Y Real Analysis

Four year:
- MATC05Y Real Analysis
- MATC06S Complex Analysis I
- MATC07S Complex Analysis II

1 half course to be taken from C level STA courses at Scarborough, CSCS54F, 300 and 400 level STA courses on the St. George campus.

Specialist Programme in Physics

Supervisor: C. C. Dyer, M. I. G. Lee

This Programme requires 16 full-course equivalents. The programme provides a broad introduction to Astronomy, Chemistry and Physics based upon a firm 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:
- ASTA02Y Introduction to Astronomy
- CSCA57S Introduction to Scientific Computing
- MATM25Y Calculus
- PHYA01Y Principles of Physics

Second year:
- ASTB05S Celestial and Classical Mechanics
- CHMB11Y Analytical Chemistry I
- MATB10F Multivariate Calculus I
- MATB12S Multivariate Calculus II
- PHYB12S Electricity and Magnetism

Third year:
- ASTC05F Structure and Evolution of Atmospheric Bodies
- CHMB22Y Physical Chemistry I
- PHIL10Y Philosophy of Science
- PHYB22S Physics Laboratory

Fourth year:
- ASTC01Y Stellar Systems, Galaxies and Cosmology
- CHMB33Y Inorganic Chemistry I
- CHMB44Y Organic Chemistry I
- CSCS50P Numerical Algorithms and Optimisation

1 half course to be taken from C level STA courses at Scarborough, CSCS54F, 300 and 400 level STA courses on the St. George campus.

Major Programme in Astronomy and Physics

Supervisor: C. C. Dyer, M. I. G. Lee

In this Programme, students must complete 8 full-course equivalents in astronomy, mathematics and physics as listed below. After completing the programme, students will have a good education in the basic principles and applications of modern astronomy and physics. It is intended for those who desire a basic understanding of these subjects but who do not plan to pursue graduate studies.

First year:
- MATM09Y Calculus
- PHYA01Y Principles of Physics

Second year:
- ASTB05S Celestial and Classical Mechanics
- MATB14F Techniques of the Calculus of Several Variables I
- MATB14S Multivariate Calculus II
- PHYB12S Electricity and Magnetism

Third year:
- ASTC05F Structure and Evolution of Atmospheric Bodies
- CHMB22Y Physical Chemistry I
- PHIL10Y Philosophy of Science
- PHYB22S Physics Laboratory

Fourth year:
- ASTC01Y Stellar Systems, Galaxies and Cosmology
- CHMB33Y Inorganic Chemistry I
- CHMB44Y Organic Chemistry I
- CSCS50P Numerical Algorithms and Optimisation

1 half course to be taken from C level STA courses at Scarborough, CSCS54F, 300 and 400 level STA courses on the St. George campus.
Major Programmes in Chemistry

First year:

CHIM30Y General Chemistry

PHYS1Y Principles of Physics

or

PHYS2Y Concepts of Physics

Second and Third years: (One of the following sets of options must be taken):

Inorganic/Organic

CHIM31Y Analytical Chemistry I

CHIM32Y Inorganic Chemistry I

CHIM33Y Organic Chemistry I

CHIM34Y Inorganic Chemistry Laboratory

CHIM34Y Organic Chemistry Laboratory

Physical Organic

CHIM32Y Physical Chemistry I

CHIM34Y Organic Chemistry I

MATB41F Techniques of the Calculus of Several Variables I

MATB42S Techniques of the Calculus of Several Variables II

First year:

CHIM30Y Introductory Biology

CHIM42Y General Chemistry

Second and Third years:

CHIM31Y Analytical Chemistry

CHIM44Y Organic Chemistry I

CHIM40Y Organic Chemistry II

BIOC35Y Introductory Biochemistry

BIOC36Y Laboratory in Biochemistry

one of:

BIOC35Y Basic Microbiology

BIOC37Y General and Comparative Physiology

CHIM32Y Physical Chemistry I

CHIM32Y Inorganic Chemistry I

PHYS3Y are prerequisites.

MATB40Y is a strongly recommended course.

Major Programme in Mathematical Sciences

Students must choose one of the following options:

Mathematics

Superior: H. S. Resenthal (287-7208)

First year:

MATA20Y Calculus

or

MATA44Y Linear Algebra

CSCA56F Introduction to Computing

CSCA68S Computer Applications

Second and Third years:

MATB31F Algebra I

MATB34F Techniques of the Calculus of Several Variables I

MATB42S Techniques of the Calculus of Several Variables II

STAB22F Statistics

a) 1.5 full-course equivalents from:

MATB43S, C15F, C35F, C56S, C60F, C65S

b) 0.5 full-course equivalent from:


1.0 full course equivalent from:


STAB47S, C42S, C52F, C70F, any 300 and 400 level STA course on St. George campus.

Computer Science:

Supervisor: O. Capit (287-7253)

First year:

CSCA48F Introduction to Computing

MATA44Y Linear Algebra

MATA20Y Calculus

Second and Third years:

CSCB28S File Structures and Data Management

CSCB38F Discrete Mathematics

CSCB38F Computer Organization

MATB41F Techniques of the Calculus of Several Variables I

MATB42S Techniques of the Calculus of Several Variables II

STAB22F Statistics

1.0 full-course equivalent from:


STAB47S, C42S, C52F, C70F, any 300 and 400 level STA course on St. George campus.

PSC031H Modern Applications of Classical Science

The use of concepts from classical science in modern systems in society will be considered. Particular applications might include energy production and distribution systems, such as hydro-electric grid systems. The constraints on the design, efficiency, etc. of such systems imposed by the laws of classical science, such as thermodynamics, will be considered, and evolutionary possibilities of such systems as technology changes will be considered subject to the basic constraints.

PSC031H Modem Applications of Classical Science

First year:

CSCA48F Introduction to Computing

CSCA52S File Structures and Data Management

CSCA53S Discrete Mathematics

STAB22F Statistics

0.5 full-course equivalent from:


PSC031H Modern Applications of Classical Science
Physics

Discipline Representative: A. Griffin

Physics is the study of the basic laws which describe how material objects move and interact with each other. The effect of a star on the motion of a planet, or of the Earth on the motion of a satellite, the effect of a molecule on a neighbouring atom, or of an atomic nucleus on an electron, may be accurately described in terms of the general laws of physics. Although Newton's laws of mechanics accurately describe some of these situations, in most cases it is necessary to apply the more recently discovered refinements of these laws - quantum mechanics and the theory of relativity, together with the understanding of electric and magnetic effects so beautifully synthesized in Maxwell's theory of electromagnetism. From these basic principles emerge the properties of gases, liquids, solids, plasmas, and nuclear matter, as well as 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-rays, radio, cosmic and other radiations of which we are not directly aware. The remarkable properties of some materials under extreme conditions of temperature and pressure, and of other materials when an electric current passes through them, form the basis of a wide range of applications of the subject. It is possible to develop, in mathematical language, theories that run so closely parallel to the developments of physical phenomena that they may be used to accurately describe and even predict the results of many carefully controlled experiments. The study of physics, therefore, requires some studies both of mathematics and of the techniques that are needed to the performance of accurate experiments.

At Scarborough College, students interested in Physics can take the Specialist Programme in Astronomy, Physics and Mathematics, 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 two introductory courses in physics: PHYS101Y and PHYS102Y.

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

Specialist Programme in Astronomy, Mathematics and Physics
Specialist Programme in Computer Science and Physics
Specialist Programme in Co-op Computer Science and Physical Sciences
Major Programme in Astronomy and Physics
Major Programme in Physics

The Major Programme in Physics is no longer offered. Students currently registered will be allowed to complete it.

PHYS111 Principles of Physics

Telephone ID #: 24810163
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, Einstein's: 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: PHYS101Y; PHYS103Y; PHYS110Y; PHYS115Y
Corequisite: MAT126 or MAT127Y or MAT125Y
Session: Winter Day

PHY102Y Concepts of Physics

Telephone ID #: 24810053
Classical mechanics: potential energy, linear and angular momentum, planetary motion: Thermodynamics: temperature, entropy, ideal gases; Special theory of relativity: length contraction, time dilation, Einstein's Mass-energy and magnetism: electric and magnetic fields, laws of Gauss, Ampère, Faraday, and Maxwell, electromagnetic waves, Quantum physics: atoms and molecules, solids, structure of nuclei, nuclear activity, nuclear fission, the early universe.

Two lectures and one tutorial per week, and a three-hour laboratory every second week.

Exclusion: PHYS101Y; PHYS103Y; PHYS110Y; PHYS115Y
Corequisite: OAC102 or OAC103
Session: Winter Day

PHYS115S Electricity and Magnetism

Telephone ID #: 24822509
Coulomb's law, electric field, Gauss' law, electric potential, capacitance, dielectrics, magnetic forces and field, magnetic induction, Faraday's law, displacement currents, Maxwell's equations.

Exclusion: PHYS101Y
Corequisite: PHYS101Y
Session: Winter Day

PHYS122S Electronics

Telephone ID #: 24822233
Non-linear elements including diodes and transistors, rectifiers, simple filters, amplifiers, pulse circuits, operational amplifiers, logic gates, Boolean algebra, digital electronics. Includes a three-hour laboratory every second week.

Exclusion: PHYS101Y or PHYS102Y; MAT126
Corequisite: PHY121

PHYS123H Physical Laboratory

Telephone ID #: 24822343
Experiments in circuit theory, basic electricity and magnetism, solid state physics and atomic and nuclear physics. A six-hour laboratory once every two weeks.

Exclusion: PHY121H; PHY122H
Corequisite: PHY121H

PHYS125H Advanced Physical Laboratory

Telephone ID #: 24830543
A selection of a number of advanced and detailed experiments illustrating fundamental principles and techniques in physics. Limited enrolment: 20.

This course is designed to involve students in more complex experiments, introducing them to vacuum techniques, X-rays, nuclear instrumentation, etc. Students will work with a minimum of supervision and will be expected to take the initiative in overcoming experimental difficulties. One six-hour laboratory period every second week. A single experiment may extend over more than one period.

Exclusion: PHYS125; PHYS101Y
Corequisite: PHYS101Y
Session: Winter Day

PHYS125F Classical and Quantum Waves

Telephone ID #: 24832133
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 wave, wave mechanics of 1-dimensional systems.

Exclusion: PHYS104, PHYS105
Corequisite: PHYS101Y
Session: Winter Day

PHYS125S Structure of Matter

Telephone ID #: 24832253
Introduction to the quantum description of electronic properties of atoms, molecules and solids including semiconductors and superconductors), subatomic physics of elementary particles and structure of nuclei; nuclear power. Course includes discussion of Fermi and Bose statistical distributions.

Exclusion: PHYS114, PHYS115, PHYS120, PHYS124, PHYS127, PHYS129, PHYS125
Corequisite: PHYS121Y
Session: Winter Day

PHYS127H1 Principles of Physics

Telephone ID #: 24810163
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, Einstein's: 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: PHYS101Y; PHYS102Y; MAT126
Corequisite: PHY121H

PHYS127H Physical Laboratory

Telephone ID #: 24822343
Experiments in circuit theory, basic electricity and magnetism, solid state physics and atomic and nuclear physics. A six-hour laboratory once every two weeks.

Exclusion: PHY121H; PHY122H
Corequisite: PHY121H

PHYS127S Advanced Physical Laboratory

Telephone ID #: 24830543
A selection of a number of advanced and detailed experiments illustrating fundamental principles and techniques in physics. Limited enrolment: 20.

This course is designed to involve students in more complex experiments, introducing them to vacuum techniques, X-rays, nuclear instrumentation, etc. Students will work with a minimum of supervision and will be expected to take the initiative in overcoming experimental difficulties. One six-hour laboratory period every second week. A single experiment may extend over more than one period.

Exclusion: PHYS125; PHYS101Y
Corequisite: PHYS101Y
Session: Winter Day

PHYS127F Classical and Quantum Waves

Telephone ID #: 24832133
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 wave, wave mechanics of 1-dimensional systems.

Exclusion: PHYS104, PHYS105
Corequisite: PHYS101Y
Session: Winter Day

PHYS127S Structure of Matter

Telephone ID #: 24832253
Introduction to the quantum description of electronic properties of atoms, molecules and solids including semiconductors and superconductors), subatomic physics of elementary particles and structure of nuclei; nuclear power. Course includes discussion of Fermi and Bose statistical distributions.

Exclusion: PHYS114, PHYS115, PHYS120, PHYS124, PHYS127, PHYS129, PHYS125
Corequisite: PHYS121Y
Session: Winter Day
Political Science

Discipline Representative: A. Rubinoff

Political Science consists of a variety of approaches to the study of politics. Politics is the process of attempting to resolve conflicts among competing interests and values, and over how societal resources will be allocated. The discipline includes not only the study of policies and arrangements created to facilitate non-violent resolution of conflict at the level of the nation state, but also the institutional and informal means by which a group may enhance its power (that is, its ability to have its views and interests implemented) from the level of the municipality to the international realm.

Political Science is divided into the following fields: Canadian Government, comparative politics (industrial countries), comparative politics (developing countries), public administration, and public policy, international relations, and political theory. In the study of Canadian Government students will become familiar with the process and structures of decision making in Canada. Public Administration deals with the instruments or organizational structures through which public policies are implemented. Courses in Comparative Government Politics focus on the political practices and policies of a wide variety of nations and thus broaden the student's awareness of foreign political systems. International Relations is devoted to the analysis of the foreign policies of various nation states and the relations amongst nation states. Political Theory explores the reasons advanced for various political doctrines and policies; that is, it attempts to clarify the place of politics in relation to various conceptions of the "quality of life." Undergraduate courses range from the introductory level to the advanced, the latter corresponding to increasing degrees of concentration and difficulty of subject matter. Undergraduate seminars and assume a strong background in political science and related fields such as economics, geography, history, philosophy, and sociology. Students are advised to consult the instructors of D-level courses or the Supervisor of Studies prior to enrolling in them.

Enrollment priority is given to students for whom the course is required in a given year of a program. All students in the major will be informed prior to the end of classes in April of any new policies to be applied to limited enrollment courses. Students should consult the Supervisor of Studies about procedures. Prerequisite: Because appropriate academic preparation for advanced work in political science can vary greatly from one course to another, specific prerequisites are not always stated for higher-level courses. When prerequisites are stated, they will be strictly enforced. Students who knowingly or unwittingly register for courses for which they do not have the necessary prerequisites will be denied access to these courses.

Specialist Programme in Political Science

Supervisor: D. Welch (387-7308)

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 (i.e., generally after completing the first year of the degree program). Applicants must have completed or be in the process of completing POL105. Students will be selected to enter the second year of the program on the basis of their GPA for these four courses taken to date (including POL105) in which their grades are highest. Students wishing to register at a later date may be admitted at the discretion of the Supervisor.

Students must complete ten full-course equivalents in Political Science. The courses must be approved by the Supervisor and must include the following:

1. POL105 Introduction to Canadian Politics

2. Two full-course equivalents in political theory from: POL107, POL109, POL110, POL111, POL112, POL113, POL172, POL173

3. One full-course equivalent from each of the following fields:

A. Canadian Government: POL151, POL152, POL153, POL154, POL155, POL156

B. Public Administration and Public Policy: POL161, POL162, POL163, POL164, POL165, POL166, POL167, POL168

C. International Relations: POL171, POL172, POL173, POL174, POL175, POL176, POL177, POL178

D. Comparative Politics, Industrial Countries: POL181, POL182, POL183, POL184, POL185, POL186, POL187, POL188, POL189, POL190, POL191

E. Comparative Politics, Developing Countries: POL192, POL193, POL194, POL195, POL196, POL197, POL198, POL199, POL200

Students in the Specialist Programme may not take more than four full-course equivalents in Political Science. In selecting courses from other disciplines, they should consult with the Supervisor or with a member of the Political Science staff.

Major Programme in Political Science

Supervisor: D. Welch (387-7308)

Note: Registration in this Programme is limited.

Applications for admission to the Major Programme are accepted after students have completed at least four full-course equivalents (i.e., generally after completing the first year of the degree program). Applicants must have completed or be in the process of completing POL105. Students will be selected to enter the second year of the program on the basis of their GPA for these four courses taken to date (including POL105) 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 six full-course equivalents in Political Science. The courses must be approved by the Supervisor and must include the following:

1. POL105 Introduction to Canadian Politics

2. One full-course equivalent in political theory from: POL107, POL109, POL110, POL111, POL112, POL113

3. One full-course equivalent from each of any three of the following fields:

A. Canadian Government: POL151, POL152, POL153, POL154, POL155, POL156

B. Public Administration and Public Policy: POL161, POL162, POL163, POL164, POL165, POL166, POL167, POL168

C. International Relations: POL171, POL172, POL173, POL174

D. Comparative Politics, Industrial Countries: POL181, POL182, POL183, POL184, POL185, POL186, POL187, POL188, POL189, POL190

E. Comparative Politics, Developing Countries: POL192, POL193, POL194, POL195, POL196, POL197, POL198, POL199, POL200

POL205Y Introduction to Canadian Politics

Telephone ID #: 32515003

A study of Canadian political institutions and processes. Specific topics include: the constitution, federalism, civil liberties, federal-provincial relations, political regionalism, French Canada, the West, social class and politics, public opinion and political culture, elections, political parties, interest groups, Cabinet and Prime Minister, Parliament, the public service. Two lectures a week and a tutorial once every two weeks. Class size is limited to 80 per section. Exclusion: POL180, POL190

Session: Summer Evening/Winter Day, Winter Evening

L. Johnston, R. Blair, TBA

DS381Y Political Economy of International Development

Telephone ID #: 214001

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.

Prerequisite: One course in either Economics or Political Science

Session: Winter Day/FBA

POL705Y Political Thought from Plato to Locke

Telephone ID #: 2527003

A survey of the central political texts from Plato to the early modern period. Students are expected to read Plato's Republic, Aristotle's Politics, Machiavelli's The Prince, Hobbes' Leviathan (Parts 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: COM360

Session: Winter Day

E. Andrew
POLO38Y International Relations
Telephone ID: 2522806
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 10 per section. Exclusion: POL205
Prerequisite: Not open to first year students without permission of instructor
Session: Winter Day, Winter Evening
D. Welch, A. Rabuffo

POLO38Y Soviet Government and Politics
Telephone ID: 2522860
The development of Soviet 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 Soviet political order and the urgent problems confronting Soviet society today. Class size is limited to 80 per section. Exclusion: POL402, POL404
Session: Winter Day
S. Solomon

POLO38Y U.S. Government and Politics
Telephone ID: 25228736
This course explores politics in the United States by analyzing the American federal system, examining the institutions and processes of government, and by focusing on selected policy issues. Class size is limited to 80 per section. Exclusion: POL205
Session: Winter Day
A. Rabuffo

POLO39Y Politics of the Third World
Telephone ID: 25228743
The effects which various Western, especially North American, policies and practices have had upon development in the Third World. The policies and practices to be surveyed include those relating to foreign aid, the multi-national corporation, and Western security. Case material will be drawn from four countries in Latin America and Africa which illustrate a diversity of approaches to development: Cuba, Chile, Ghana, Kenya. Class size is limited to 80 per section. Exclusion: POL201
Session: Winter Day
J. Trishman

POLO35Y Canadian Constitution
Telephone ID: 25225623
Historical origins of the Canadian constitution and its evolution since 1867; the law and customs of the constitution; judicial interpretation of the Constitution Act 1867 and its effect on federalism and civil liberties; constitutional change and the Constitution Act 1982; contemporary constitutional issues. Class size is limited to 60 per section. Exclusion: POL210
Prerequisite: POL150 or POL155
Session: Winter Day
A. S. Blake

POLO35Y Political Thought of the Eighteenth and Nineteenth Centuries
Telephone ID: 25227493
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, de Tocqueville’s Democracy in America, and selected writings of J.S. Mill and Marx. Class size is limited to 60 per section. Exclusion: POL291
Prerequisite: POL170
Session: Winter Day, Summer Evening
M. Williams

POLO375Y Political Analysis
Telephone ID: 25227563
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 questions concerning the “science of politics”. Class size is limited to 60 per section. Exclusion: POL305 (1985-86) (POL372), POL312, POL401
Prerequisite: POL101
Session: Winter Day
S. Solomon

POLO34Y Canadian Foreign Policy
Telephone ID: 25223863
An examination of the most important elements within Canada’s foreign policy since 1945 and a consideration of the issues and the influences which have determined that policy. Class size is limited to 60 per section. Exclusion: POL312
Prerequisite: POL150 or POL155 or POL100
Session: Winter Day
D. Welch

POLO37Y Comparative Politics of Industrial Societies
Telephone ID: 25238763
A comparative analysis of politics in advanced industrial societies including consideration of the following topics: interaction among political and bureaucratic elites, interest group representation, the dynamics of the welfare state, and future conditions of post-industrial societies. Organization of the course will depend upon environmental. Class size is limited to 60 per section. Exclusion: POL389, POL390
Prerequisite: POL150 and one "B" level course in political science
Session: Winter Day
J. Etterbury

POLO35Y Political and Social in Latin America
Telephone ID: 25238463
This lecture/seminar course will survey the evolution and current traits of political institutions in Latin America with particular emphasis upon the role of domestic and international forces in shaping them. Class size is limited to 60 per section. Exclusion: IDS181Y or POL191Y
Session: Winter Day
J. Trishman

POLO17 Y Canadian Political Ideas
Telephone ID: 25247163
An examination of the ideas informing Canadian political movements and parties from Confederation to the present. The seminar will require two class presentations during the year. Class size is limited to 20 per section. Exclusion: POL212, POL207
Prerequisite: One of POL150 (POL155), POL110, POL114, H2S504
Session: Winter Day
E. Andrew

POLO39F Selected Topics on Developing Areas
Telephone ID: 25249333
A detailed examination of particular problems in the study of developing areas. The topic will be announced annually in the Spring. Class size is limited to 20 per section. Prerequisite: POL301 or permission of instructor
Session: Winter Day
TBA

POLO35S Selected Topics on Developing Areas
Telephone ID: 2524945
The topic to be examined this year is the role of the state in facilitating economic development in the Third World. Both capitalist and socialist patterns receive attention. Comparisons to Western and Japanese experience are drawn. Class size is limited to 20 per section.
Prerequisite: A social science course on the Third World or development
Session: Winter Day
TBA

POLO39F Supervised Reading
Telephone ID: 2524963
Advanced reading program in special topics. This course is meant only for those students who, having completed the available basic courses in a particular field of Political Science, wish to pursue further intensive study on a relevant topic of special interest.
Exclusion: POL101
Prerequisite: One 2-level course in Political Science; Permission of Instructor
Session: Summer Evening, Winter Day, Winter Evening
Staff

POLO39S Supervised Reading
Telephone ID: 2524953
Advanced reading program in special topics. This course is meant only for those students who, having completed the available basic courses in a particular field of Political Science, wish to pursue further intensive study on a relevant topic of special interest.
Exclusion: POL101
Prerequisite: One 2-level course in Political Science; Permission of Instructor
Session: Summer Evening, Winter Day, Winter Evening
Staff

Courses Not Offered in 1992-93

POLB51F/S Government and Politics in Ontario
Exclusion: POL336
Prerequisite: POL150 (POL155)
Session: Winter Day
TBA

POLB51F/S Public Policies in Canada
Exclusion: POL336
Prerequisite: POL150 (POL155)
Session: Winter Day
TBA
Psychology

Associate Chair: G.C. Cupchik
(Office 3-L34)

Psychology is that branch of science which seeks to understand behaviour and mind. Why organisms - human and inhuman - act as they do is one of the most compelling and longstanding questions in the history of human thought. Philosophers, artists, novelists, theologians and others have sought the answers through reason and intuition. Psychology uses the methods of scientific inquiry to address the question.

The areas of interest encompassed by the discipline of psychology include; how organisms perceive their environment; how they learn, adapt, and remember; how they change over their lifetimes; how they choose among alternate courses of action; how they respond to motivating forces; how they are affected by the presence of other organisms in social settings; how their behaviour relates to their physiological functions; and how individuals and species differ from one another.

Our course offerings in Psychology include all of these topics, covering how psychologists go about answering the important questions in each, and what we have learned about each.

The Specialist Programme in Psychology includes courses from each of the main sub-areas within the discipline. This Programme is intended both for students with a strong interest in the field and for those who wish to pursue graduate work in psychology after the first degree. Students considering graduate study should plan to include the thesis course (PSYD618R) in their undergraduate program.

The Major Programme in Psychology also is designed to introduce students to the main areas within the discipline. Students opting for this Programme generally do so because they 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.
Major Programme in Psychology Supervisor: G. B. Biederman (Office 9 569)

The Programme requires completion of 60 full-course equivalents in Psychology and normally results in the 3-year B.A. in Psychology. For the 3-year B.Sc. degree, the student must take one additional full-course equivalent at the B-level or above in any science (including psychology).

1. PSTD10Y Introduction to Psychology (1 full-course equivalent)
2. PSTD10YS Psychological Research Laboratory (1 full-course equivalent)
3. PSTD20Y Data Analysis in Psychology (1 full-course equivalent)
4. Courses at the B-level and/or C-level (3 full-course equivalents)
   Students are required to take one full-course equivalent at the B-level and/or C-level from each of the three content groups listed below:
   (a) Social, Developmental, and Personality courses (listed in the 12-, 20-, and 30-series);
   (b) Learning and Psychophysics courses (listed in the 40- and 60-series);
   (c) Perception, Language, and Cognition courses (listed in the 50-series).

5. Course at the D-level (2 full-course equivalents)
   In selecting two full-course equivalents at the D-level, students may not choose more than 1.5 full-course equivalents from any one of the content groups listed under (a), (b), or (c).

6. Additional courses in Psychology (1.5 full-course equivalents)
   Students must choose 1.5 further full-course equivalents from any of the remaining courses in Psychology. The choice is unencumbered. Students are encouraged to plan on enrolling in the thesis course (PSTD80Y) in their third or fourth year, particularly if they intend to pursue a career in Psychology or a related discipline.

7. Other Disciplines (2 full-course equivalents)
   Students must select at least two full-course equivalents at the D-level, or higher, in a discipline or disciplines other than Psychology.
Introduction to Social Psychology
Telephone ID #: 25721035
Surveys social influence (compliance and obedience), prejudice, sexism, attitude change, group behavior (crowding, crowd behavior, panic), aggression, cooperation and competition, nonverbal communication, person perception, attraction and emotions.

Social Psychology focuses on the problem of how human behavior is influenced by the presence of others. The course is designed to demonstrate phenomena of social behavior and to present theories and research evidence relating to these phenomena.

Exclusion: PSY200H
Prerequisite: PSY201
Session: Winter Day
A. Kakash

Abnormal Psychology
Telephone ID #: 25723333
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 hypothesis, model and theory, including genetic, physiological, stress, medical-psychiatric, psychodynamic, social-learning, 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, psychosomatic, and motor aspects; approaches, methods of investigation, and findings in psychological, psychophysiological, genetic, and epidemiological research; management, control, and modification of abnormal behavior within and outside institutions, including pharmacological, psychotherapeutic, learning-based, and social engineering approaches.

The concept of normality and categorizing its varieties will be emphasized.

Exclusion: PSY200H
Prerequisite: PSY201
Session: Winter Day
M. Schmuckler

Personality
Telephone ID #: 25721035
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 topical selection might include behavioral psychology, cognitive psychology and artificial intelligence, psychoanalysis, and transpersonal psychology.

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: PSY200H
Prerequisite: PSY201
Session: Winter Day
A. Kakash

Abnormal Psychology
Telephone ID #: 25723333
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 hypothesis, model and theory, including genetic, physiological, stress, medical-psychiatric, psychodynamic, social-learning, 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, psychosomatic, and motor aspects; approaches, methods of investigation, and findings in psychological, psychophysiological, genetic, and epidemiological research; management, control, and modification of abnormal behavior within and outside institutions, including pharmacological, psychotherapeutic, learning-based, and social engineering approaches.

The concept of normality and categorizing its varieties will be emphasized.

Exclusion: PSY200H
Prerequisite: PSY201
Session: Winter Day
M. Schmuckler

Behavior Modification: Origins and Applications
Telephone ID #: 25724333
A survey of attempts to understand and regulate human behavior in non-laboratory settings founded on principles derived from the learning and conditioning laboratory. A critical analysis of current applications and systems of behavior regulation and control.

Philosophical underpinnings: basic concepts and models of behavioral change; research strategies; operant procedures; reinforcement schedules; extinction, shaping, self-reinforcement, fading, chaining, instruction; the token economy, behavioral contracting, biofeedback parameters of reinforcement 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; systematic desensitization; treatment of anxiety, obsessive-compulsive conditioning; treatment of alcoholism and drug abuse.

Exclusion: PSY201
Prerequisite: PSY201
Session: Winter Evening
F. Kliger

Sensation and Perception
Telephone ID #: 25720033
The physics, mathematics and physiology of processes underlying perception, emphasizing the energies involved in different senses.

Stimuli for the human senses, especially light and sound; receptors and sensory pathways with emphasis on vision; sensitivity; color; spatial and temporal resolution; contrast; perception of space and movement; perception of pattern and form. The teaching method will be lectures, for which preparatory reading will be important, and classroom demonstrations of many phenomena under discussion.

Exclusion: PSY200Y
Prerequisite: PSY201
Session: Winter Evening
TBA

Perception and Cognition
Telephone ID #: 25721533
Theory and empirical research on visual and tactile perception, representation, and communication.

Topics include the ecological approach to perception and depiction in the handicapped and normal perceiver, perceptual information and projection, illusion, perception, shadow patterns, 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 exercise form part of the course work.

Exclusion: PSY200Y
Prerequisite: PSY201
Session: Winter Evening
J. Kennedy

Psycholinguistics
Telephone ID #: 25425353
Experimental evidence for theories of how humans 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 planning and understanding sentences, production and comprehension of longer stretches of discourse, and the role of memory systems in language processing.

Exclusion: (JPSY2151, JPSY2241)
Prerequisite: One FCE in JIN and one FCE in PSY
Session: Winter Day
A. Tang

Offered every year

Memory and Cognition
Telephone ID #: 25725753
Dissection 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: PSY200Y, PSY372H
Prerequisite: PSY201
Corequisite: PSY200
Session: Winter Day
C. McLeod

Brain Mechanisms and Behavior I
Telephone ID #: 25720333
The relation between behaviour and the structure and function of the nervous system. Topics covered include: neuroanatomy, structure and function of the nervous system, neurochemistry and neural mechanisms of sensation and movement.

The objective is to give the student a firm grasp of the structure and function of the nervous system and its role in the behavior of an organism. Neuroanatomy, structure, and function of the nervous system, neurochemistry, and neural mechanisms of sensation and movement.

Three lecture hours and one hour lab or tutorial per week.

Exclusion: PSY200Y
Prerequisite: PSY406. PSY865 is recommended for students with no Biology background.
Session: Winter Day
H. Milgrom

Human Brain and Behavior
Telephone ID #: 25726533
An examination of the neurological basis of human behavior; an introduction to human neuropsychology. The course focuses on the following: higher brain function in humans;
heminpheric specialization, neuropsychology of speech, disorders of the central nervous system (multiple sclerosis, epilepsy, organic brain damage, strokes, senility, frontal lobe syndromes, neglect, and speech disorders), psychopharmacology and drugs of use and abuse, and the biological basis of psychiatric disorders.

Three hours of lecture per week.

Prerequisite: PSY201
Session: Winter Day
T. Petti

PSYC385 Experimental Design in Psychology

Telephone ID: 25734253
The analysis of variance as a research tool and the rationale and mechanics of its application to a variety of experimental designs: simple randomized, repeated measures, factorial. Additional topics discussed include: homogeneity of variance, multiple comparisons, trend analysis.

The course extends the range of techniques examined in PSY207. Procedures are considered which permit the analysis and interpretation of data from complex experiments involving the simultaneous manipulation of several independent variables. The course is highly recommended for all students contemplating supervised individual research in Psychology.

Three hours of lecture and one hour of tutorial per week.
Exclusion: STAC52, PSY202H
Prerequisite: PSY207, BIOL202, STAT247 plus one additional Bi-level half-course in PSY.
Session: Summer Evening, Winter Day
D. Bars

PSYC311 Social Psychology Laboratory Telephone ID: 25731133

Introduction to concepts and practical issues concerning research in social psychology, and provides experience with several different types of research.

This course is designed to consider in depth various research approaches used in social psychology (such as attitude questionnaires, observational methods for studying ongoing social interaction). Discussion and laboratory work. Limited enrollment: 25.
Exclusion: PSY201H
Prerequisite: PSY101, PSY207, PSY210 Session: Winter Day
K. Dion

PSYC325 Advanced Social Psychology

Telephone ID: 25734253
A detailed examination of selected social psychological topics introduced in PSY210.

Attitudes play a central role in our social lives. This course examines the nature of attitudes, their development, organization, and change. Practical issues such as the measurement of attitudes and their relation between attitudes and behavior will be covered. In addition, the course examines belief systems and their manifestation in political and moral ideologies.

Teaching method: lectures.
Exclusion: PSY201H
Prerequisite: PSY207, PSY210 plus one additional Bi-level half-course in PSY.
Session: Winter Day
J. Basili

PSYC245 Developmental Psycholinguistics

Telephone ID: 25483423
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: JLPC424S, JLPC151H
Prerequisite: One FCE in LIN and one FCE in PSY, and one Bi-level FCE in either LIN, PSY or JLPC.
Session: Winter Day
R. Smith
Not offered 1993/94
Offered 1994/95

PSYC265 Developmental Psychology

Telephone ID: 25734253
This course introduces conceptual and practical issues concerning research in developmental psychology, providing experience with different types of developmental research methodology. Developmental psychology focuses on the process of change within and across different phases of the life-span. Reflecting the broad range of topics in this area, there are diverse research methods. These methods include techniques for studying infants' behavior (habituation, operant conditioning procedures) as well as procedures for studying development in children, adolescents, and adults such as the Piagetian interview method, behavioral observation, questionnaires. The course will cover a representative sample of these methods. Attention will be given to the development of skills that will enhance the student's ability to read and evaluate the social sciences literature.

Exclusion: PSY207, PSY245, PSY245S and PSY245A also recommended.
Session: Winter Day
G. Biederman

PSYC245C Cognition and Representation

Telephone ID: 25734253
Recent theories of perception and representation relevant to skill in the use of pictures and language.

Topics may include making and interpreting metacognition, recognizing cross-modal equivalence, learning how to draw and symbolize, and effects of perceptual and cognitive handicaps on the development of skills with patterns normally found in vision and audition. The research to be considered will emphasize studies on the mind, and child development.

Teaching method includes lectures and student presentations.
Prerequisite: PSY207, a PSY245 or a PSY245S series in PSY.
Session: Winter Day
J. Kennedy

PSYC285 Experimental Psychology

Telephone ID: 25734253
Examinations of the widespread impact of computers in experimental psychology. 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 enrollment: 25.
Exclusion: PSY306H and any course in Computer Science.
Prerequisite: PSY101, PSY207 or equivalent.
Session: Winter Day
C. McLeod

PSYCS15 Brain Mechanism and Behavior

Telephone ID: 25731635
A continuation of PSYC15, emphasizing motivation and learning. Topics covered under the category of motivation include: physiological basis of eating, drinking and sexual behavior, sleep, and the neural substrates of reward. Topics covered under learning include: physiological processes and memory, structural basis of learning and memory, and behavior that will provide students with an understanding of the physiological substrates underlying behavior.

Three hours of lecture per week.
Exclusion: PSY200V
Prerequisite: PSY160, plus one other Bi-level half-course in PSY.
PSY210, PSY207, and PSYC208 are recommended.
Session: Winter Evening
M. Milgram
PSYC31 Physiological Psychology Laboratory
Telephone ID #: 25736035
Instructor in a variety of techniques used in investigations of nervous system function. The course is mainly intended for students who are pursuing a Special Program in the Neurosciences.

The procedures covered may include: (i) biology (preparing, cutting and staining neural tissue), (ii) lesioning specific regions of the central nervous system; (iii) behavioral techniques; (iv) electrophysiological recording techniques.

Two hours of lecture and three hours of scheduled laboratory work per week. Students will also be required to spend additional hours working in the student laboratory. The course involves a series of three to five laboratory projects.

Exclusion: PSY399Y
Prerequisite: PSY920 and permission of instructor
Composites: PSY800, PSY901, PSY910 and PSY920 are recommended
Session: Winter Day
T. Patel, Mendelson

PSYC45 Physiology of Sensory Systems and Their Development
Telephone ID #: 25736045
This course will focus on the mechanisms by which the nervous system processes sensory information and how these sensory circuits can be modified during development. The neural changes of sensory transduction, as well as transmission and integration, along organized pathways will be examined. Environmental and genetic modulation of sensory systems during development will be used to illustrate how genetic, environmental, and experiential factors can alter the structure and function of the nervous system. The topics covered under development include embryonic development, developmenal plasticity (including effects of environment and experience on brain structure) and aging.

The topics included under sensory system are: receptor mechanisms, organization and sensory physiology of each of the sensory systems (olfactory, visual, somatosensory, auditory, vestibular), and models of sensory processing.

Three hours of lecture per week.
Prerequisite: PSY860
Session: Winter Day
J. Mendelson

PSYC422 Theoretical Psychology
Telephone ID #: 25736253
An introduction to the problems and methods of theoretical analysis in psychology.

The emphasis of the course is on developing sophistication in the techniques of theoretical analysis. The aim is to enable the student to read and evaluate the current literature in theoretical psychology.

Exclusion: PSY301H
Prerequisite: PSY310 or permission of instructor
Session: Winter Day
A. Kesler

PSYC55 History of Psychology
Telephone ID #: 25735033
A survey of developments in Western philosophy and science which influenced the emergence of modern psychology in the second half of the Nineteenth Century. Twentieth Century schools of psychology are discussed, including functionalism, structuralism, Gestaltism, Phenomenology, Behaviourism and Cognitivism. The course is designed for students who want to integrate their knowledge of the different areas of psychology and offers good preparation for graduate school.

This course examines changes in the treatment of three basic problems: mind-body, epistemology (the science of knowledge) and behavior 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 Platonists through the Nineteenth Centuries are then discussed. Topics also considered include: the process of paradigm or theory change in science and the relative location of individual genius and Zeitgeist or intellectual climate in scientific development. Limited enrolment: 15.

Exclusion: PSY420H
Prerequisite: PSY311, PSY312 or PSY310 plus one C level half-course in PSY
Session: Winter Evening
J. Bastin

PSY611H Critical Analysis in Social Psychology
Telephone ID #: 25741633
Progress in psychology is predicated on 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 North American approaches to criticism are compared. Evolutionary and revolutionary models of development are contrasted. Disciplinary and professional aspects of social psychology are discussed in relation to scientific progress. Special emphasis is placed on social and personality factors which shape theory construction and validation. Examples are drawn from both cognitive and motivational approaches to social phenomena. Finally, the analogy between Piaget's account of intellectual development in the child and developments in social psychology is considered. Limited enrolment: 15.

Exclusion: PSY410H
Prerequisite: PSY611 plus one C level half-course in PSY
Session: Winter Evening
G. Cechik

PSY618H Psychology of Gender
Telephone ID #: 25741833
This course focuses on theory and research pertaining to gender and gender roles. The social psychological and social-developmental research literature on gender differences will be critically examined. Other topics also will be considered, such as gender-role simplification. Teaching methods: seminar. Limited enrolment: 15.

Exclusion: PSY824H
Prerequisite: PSY810 plus two C level half-courses in PSY
Session: Winter Day
K. Dion

PSY625 Socialization Processes
Telephone ID #: 25742253
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: 15.

Exclusion: PSY311H, PSY410H
Prerequisite: PSY610 and PSY620 plus one C level half-course in PSY
Session: Winter Day
K. Dion

PSY635 Current Topics in Abnormal Psychology
Telephone ID #: 25743353
An intensive examination of selected issues and research problems in abnormal psychology. The specific content will vary from year to year. Limited enrolment: 15.

Exclusion: PSY440H
Prerequisite: PSY632 plus one C level half-course in PSY
Session: Winter Day
S. Zaido

PSY650S Current Topics in Memory and Cognition
Telephone ID #: 25745053
An intensive examination of selected topics. The specific content will vary from year to year. Limited enrolment: 15.

Exclusion: PSY740G, PSY740H
Prerequisite: PSY657 plus one C level half-course in PSY
Session: Summer Evening, Winter Evening
TBA
PLD55F Disorders of Speech and Language
Exclusion: (JLPD, SPSF)
Prerequisite: One FCE in LDN and one FCE in PST, and one C-level FCE in LBL, PST or PLL (JLP)
PSYD67S Psychology of Aging
Prerequisite: PSYD60

Russian

Major Programme in Society, Values and Medicine

The Major Programme in Society, Values and Medicine is no longer offered. Students currently registered in the Programme will be allowed to complete it.

Sociology

Discipline Representative: A. Sauer (287-7296)

Sociology is the scientific study of interaction among people, the social relations which they establish, and the social groups which they form. Sociology attempts to explain how society is ordered and how it functions, what accounts for social cohesion, social stratification, social mobility, and social change. It studies the consequences of co-operation, competition, and conflict.

Students may wish to take Sociology courses as a part of a general education, in anticipation of the usefulness of certain courses in future occupations or professions, or as part of a Specialist or Major Programme.

The introductory course, SOC101, is intended to familiarize students with the special theories, methods and questions of sociology as a part of a liberal education. In addition, the SOC101 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 advice. 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 - TBA
Urban Studies - Prof. J. Hamilton
Economics - Prof. J. Lee

Specialist Programme in Sociology

Supervised Reading courses are offered for students in the major. Students wishing to pursue a specific line of interest in Russian language and literature may consult the instructor in charge of the course and propose a plan of study. The plan will be approved by the instructor and submitted to the Dean of Faculty for final approval. The following courses are offered:

RUSS32H
RUSS32H
RUSS48H
RUSS48Y

Supervised Reading courses are designed for individual students who wish to pursue a specific line of interest in Russian language and literature. Classes meet every other week and are expected to write one research paper or examination on their selected topic of work.

Prerequisite: At least two years of Russian language or permission of instructor.
No more than fourteen full-course equivalents in Sociology may be included in a four-year degree.

1. SOC201Y Introduction to Sociology
2. SOC202Y Methods in Social Research
3. SOC203Y Social Statistics
4. SOC204Y History of Social Thought
5. Two full-course equivalents at 3-level in Sociology
6. SOC205Y Contemporary Social Theory
7. One and a half full-course equivalents at C-level
8. One full-course equivalent at D-level
9. One other B or C-level full course in Sociology

Major Programmes in Sociology

Sophomore: S. Rogers 207-7299
The Programme requires completion of seven full-course equivalents in Sociology including:

1. SOC201Y Introduction to Sociology
2. SOC202Y Methods in Social Research
3. SOC203Y Social Statistics
4. SOC204Y History of Social Thought
5. Three and a half full-course equivalents in Sociology, at least one and a half of which must be at the C level

SOC201Y Introduction to Sociology
Telephone ID #: 28610163
An introduction to the basic concepts, principles and methods of sociology as a discipline of the study of society. Major topics studied include: the nature of social groups, social processes, culture, socialization, deviant behavior, population, community, stratification, social institutions and social change.
Exclusion: SOC101
Session: Winter Day, Winter Evening, Summer Evening
J. Lee, J. Lee, M. Mackinnon

SOC202Y Methods in Social Research
Telephone ID #: 28610163
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.

SOC203Y Urban Sociology
Session: Winter Day
SOC205Y Social Statistics
Session: Winter Day

SOC204Y Social Statistics
Telephone ID #: 28610163
A consideration of elementary statistics including the summarizing of data, the logic of statistical decision-making and a number of common statistical tests. Statistics is a basic tool used by sociologists. An understanding of statistics is necessary for the student who wants to become an informed reader of social research. A working knowledge of elementary algebra is required. However, the lecturer will undertake brief reviews of mathematics as the need arises.
Exclusion: SOC201
Exclusion: SOC203
Exclusion: SOC202
Exclusion: SOC204
Exclusion: ANT205, SOC201, PSY307, STA322, SOC201

SOC205Y History of Social Thought
Session: Winter Day
S. Chang

SOC206Y Social Class and Social Stratification
Telephone ID #: 28610163
A study of the development of social thought from the ancient periods to contemporary sociology. The focus will be on the ideas of those thinkers who have historical significance and contemporary relevance. The course begins with a basic discussion of the nature and types of social thought. It will then look at the ideas on society in Ancient China, Greece and Rome, and the Medieval times. It will then analyze the beginnings of modern social thought with special emphasis on the emergence of sociology and the work of such theorists as Comte, Marx, Durkheim, Spencer, Simmel and Tonnies. Finally, contemporary schools of sociological theory will be considered.
Exclusion: SOC202
Exclusion: SOC201
Exclusion: SOC203
Session: Winter Day
M. Hammond

SOC212Y Sociology of the Family
Telephone ID #: 28610253
The sociological study of the family in contemporary Western society. At a macro level, the focus is on the family as a social group, emphasizing the family life cycle, member roles, interaction patterns and intergenerational problems in family relation. At a macro level, the focus is on the family in its community, institutional and historical setting, emphasizing the various social factors which affect family life and its future role in Canada.
Exclusion: SOC214, SOC202
P. Ch. Hsing

SOC217Y Deviant Behaviour
Telephone ID #: 28610163
The analysis of the social processes by which behaviors are defined and treated as criminal, immoral, disgusting, sick, or merely eccentric; the establishment and administration of sanctions, treatment and other controls; deviant subcultures; specific categories of deviates, such as, criminals against persons, "vainmints criminals", mental illness, sexual deviation and deviancy.
Exclusion: SOC212
Exclusion: SOC201

SOC218Y Ethnic and Race Relations
Telephone ID #: 28610253
A study of the structure and processes in a society made up of a variety of ethnic and racial groups. The focus will be on Canada. The course will study ethnic stratification, immigration, prejudice and discrimination, ethnic social mobility and ethnic conflict, assimilation and ethnic identity retention, and the problem of integration of society. Specific topics will include: conflict of generations, stereotypes, Canadian policies and multiculturalism and other.
Exclusion: SOC210
Exclusion: SOC201
Session: Winter Day, Summer Evening

SOC215Y Sociology of Revolution
Telephone ID #: 28610163
The phenomena of revolution as defined, described and analyzed from comparative and historical perspectives. Specific cases are utilized in order to explain the historical causes of revolutionary leadership, mobilization, and strategy. Particular attention is paid to revolution as both cause and effect of major social change.
Exclusion: SOC201, SOC203 and other 1-level full-course equivalent in Sociology or permission of instructor
Session: Winter Day
R. G. Evans
Spanish

Discipline Representative: R. Skyme
(287-7147)

Students enrolled in Spanish are offered a wide range of courses in the Spanish language.

- Course in Humanities, Linguistics, and in other languages and literatures, may prove valuable to these students as adjuncts to their plan of study or as an enrichment of their total programme.
- Students intending to enroll in the Specialist Programme in Modern Languages should consult the Calendar under Language Studies.
- Students who wish to study Spanish literature in the original may do so under Supervised Reading.
- 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 Programme.
- Students in this Programme, or in the Modern Languages Specialist Programme, may satisfy some of their Programme requirements through the Study Elsewhere Programme operated by the University of Toronto in Gralama.

Major Programme in Spanish Language

Supervisor: R. Skyme (287-7147)

This programme offers a variety of courses in Spanish language, linguistics, and the culture of Spain and Spanish America. Seven full-course equivalents are required as follows:
- SPA201Y Introductory Spanish
- SPA202H Introductory Spanish Language Practice
As with the corequisite SPA501Y, a relaxed and friendly atmosphere is provided in specially equipped language classrooms. Class time is devoted to conversing in Spanish. Students participate in language games, develop dramatic skills, and prepare dialogues and conversations based on situations and topics introduced in the dialogues of SPA500Y.

Exclusion: OAC Spanish or Grade 13 Spanish. SPA100, SPA100Y, Corequisite: SPA501Y. Session: Winter Day R. Gondek Offered 1993/94 and 1994/95

SPAI1Y Intermediate Spanish Telephone ID: 2872143 A continuation of SPA501Y.

The same format and methodology will be followed at a more advanced level. Three hours per week: one hour grammar; two hours oral practice. Exclusion: SPA200. Prerequisite: OAC Spanish or Grade 13 Spanish or SPA401 and SPA402 Corequisite: SPA502. Session: Winter Day P. Léon Offered 1993/94 and 1994/95

SPAI2H Intermediate Spanish Language Practice Telephone ID: 2872143 A companion course to SPA501Y.

Through reading material, comprehension, translation, and play-acting, this course forms an essential complement to the predominantly oral approach of SPA501Y. Two hours per week in tutorial format.

Exclusion: SPA200 Prerequisite: OAC Spanish or Grade 13 Spanish or SPA401 and SPA402 Corequisite: SPA501 Session: Winter Day K. Gondek Offered 1993/94 and 1994/95

SPAI4F Phonetics Telephone ID: 2872144 Speech sounds; intensive practice in their pronunciation and transcription.

The objectives of the course are to develop good pronunciation of Castilian (with attention to variations in other dialects) and to provide an introduction to further linguistic work. Weekly lectures concentrate on the description and distribution of Castilian speech sounds and emphasize basic intonation patterns. In

tutorial hours students practice exercises in articulation, transcription, and dictation.

Exclusion: SPA223 Pre-or Corequisite: SPA401 Session: Winter Day R. Smythe Not offered 1993/94

SPAI5F The Civilization of Spain Telephone ID: 2872143 The events and personalities which shaped Spain from the eighth to the eighteenth centuries.

The main topics will include: heroism and fame in the medieval world; the Cal and Laranjés; the Reconquest and religious intolerance; the Spanish Inquisition; the New World and its impact on the Old—Christopher Columbus: the rise and fall of the Spanish Empire—Charles V to Philip II; duty life in the Spanish Golden Age; the art of Velazquez. Weekly two-hour lectures and discussion are complemented by tape, slides, and films. The course is taught in English.

Exclusions: (HUMB515), (HUMB509), (HUMB509), (HUMB509), SPA520 Session: Winter Day P. Léon Offered 1993/94 and 1994/95

SPAI8S The Civilization of Spain II Telephone ID: 2872155 The events and personalities that have shaped Spain from the Romantic Age to the present.

The main topics will include: Goya and his world; the Spanish Civil War—its causes, context, heroes, and aftermath; Lorca,bullfight, and Dalí—a new vision of reality. Franco: forty years of dictatorship; the transition to democracy as seen in the popular culture of the seventies; present day Spain. Weekly two-hour lectures are complemented by tapes, slides and films. The course is taught in English.


HUMB424Y The Modernist Adventure HUMB424Y The Spanish Civil War: Fact to Fiction HUMB424Y Topics in Latin American Culture and Literature Courses Not Offered in 1992-93

SPAC1F Stylistics and Translation Exclusion: SPA221 Prerequisite: SPA501 Session: Winter Day Offered 1993/94 Not offered 1994/95

SPAC2H History of the Spanish Language Exclusion: (SPA222); SPA225 Prerequisite: SPA12 Session: Winter Day Offered 1993/94 Not offered 1994/95

SPAD1Y Golden Age Spanish Drama Prerequisite: One B-level course equivalent in Drama and permission of the Instructor. Offered 1993/94

Statistics

Discipline Representative: M. Evans (287-7274)

Probability and statistics have developed over a period of several hundred years as attempts to quantify uncertainty. With its origins in modeling games of chance, probability theory has become a sophisticated mathematical discipline with applications in such fields as demography, genetics, and physics. Statistics is concerned with the proper collection and analysis of data, both to reduce uncertainty and to provide for its assessment via probability. Applications range from pre-election polling to the design and analysis of experiments to determine the relative efficacies of different vaccines.

STA1220 and STA475 serve as an introduction to the discipline. The C-level courses build upon the introductory material to provide a deeper understanding of statistical methodology and of its practical implementation.
Women's Studies

Women’s Studies

Women’s Studies offers a more concentrated course of study designed primarily for students who wish to strain their Women’s Studies course work into a particular area.

Students must select four full-course equivalents from the list below (students should check course descriptions for prerequisites):

1. WST347 Introduction to Women’s Studies
2. WST401FS Feminist Approaches to the Humanities
3. WST402FS Feminist Approaches to Science
4. WST403F/WM Women and Literary Studies
5. ENGL1FW/WM English Literature
6. French Literature
7. Prebirkoff/WM Women and Literature in France
8. OCW005/WM OCW005
9. HISC10Y/WM HISC10Y
10. HISC451/WM HISC451
11. HISC410Y/WM HISC410Y
12. HISC440Y/WM HISC440Y
13. HISC460Y/WM HISC460Y
14. HISC470Y/WM HISC470Y
15. HISC480Y/WM HISC480Y
16. HISC490Y/WM HISC490Y
17. HISC500Y/WM HISC500Y
18. HISC510Y/WM HISC510Y
19. HISC520Y/WM HISC520Y
20. HISC530Y/WM HISC530Y
21. HISC540Y/WM HISC540Y
22. HISC550Y/WM HISC550Y
23. HISC560Y/WM HISC560Y
24. HISC570Y/WM HISC570Y
25. HISC580Y/WM HISC580Y
26. HISC590Y/WM HISC590Y
27. HISC600Y/WM HISC600Y
28. HISC610Y/WM HISC610Y
29. HISC620Y/WM HISC620Y
30. HISC630Y/WM HISC630Y
31. HISC640Y/WM HISC640Y
32. HISC650Y/WM HISC650Y
33. HISC660Y/WM HISC660Y
34. HISC670Y/WM HISC670Y
35. HISC680Y/WM HISC680Y
36. HISC690Y/WM HISC690Y
37. HISC700Y/WM HISC700Y
38. HISC710Y/WM HISC710Y
39. HISC720Y/WM HISC720Y
40. HISC730Y/WM HISC730Y
41. HISC740Y/WM HISC740Y
42. HISC750Y/WM HISC750Y
43. HISC760Y/WM HISC760Y
44. HISC770Y/WM HISC770Y
45. HISC780Y/WM HISC780Y
46. HISC790Y/WM HISC790Y
47. HISC800Y/WM HISC800Y
48. HISC810Y/WM HISC810Y
49. HISC820Y/WM HISC820Y
50. HISC830Y/WM HISC830Y
51. HISC840Y/WM HISC840Y
52. HISC850Y/WM HISC850Y
53. HISC860Y/WM HISC860Y
54. HISC870Y/WM HISC870Y
55. HISC880Y/WM HISC880Y
56. HISC890Y/WM HISC890Y
57. HISC900Y/WM HISC900Y
58. HISC910Y/WM HISC910Y
59. HISC920Y/WM HISC920Y
60. HISC930Y/WM HISC930Y
61. HISC940Y/WM HISC940Y
62. HISC950Y/WM HISC950Y
63. HISC960Y/WM HISC960Y
64. HISC970Y/WM HISC970Y
65. HISC980Y/WM HISC980Y
66. HISC990Y/WM HISC990Y
Stratford Summer Seminars 199

Every June and August, in Stratford, Ontario, the Division of Humanities organizes week-long Shakespeare Seminars. In each week these seminars accommodate 75 members, who are of all ages and who come from all over Canada and the United States. While a seminar is not in itself a degree course it may be taken in partial fulfillment of the requirements for DRAC201 Theatre Seminar. The seminars are useful adjuncts to undergraduate and graduate study in Drama and Theatre.

Each week members are provided with tickets to six productions in Stratford, and one production at the Haly Festival. They participate in House seminars which provide an academic background to the plays, and attend seminars conducted by the Festival’s leading actors, directors, and designers. In 1991, the programme counted among its guests such actors as Barbara Barlow, Patricia Collins, Albert Millican and Colin Lane.

The seminar programme maintains a large mailing list on which prospective members are given full details of the events for each summer. Students at Stratford College are invited to contact either Professor Andrew Podemski or Ms. Joanne Hunter (287-7117) who will be pleased to provide them with further details of the programme. For inclusion on the mailing list, students should contact Ms. Hunter (HSO4) who will provide them with current newsletters, and ensure that they receive future newsletters. Full-time students to the age of 25 are provided with generous bursaries to defray the cost of theatre tickets.

The seminar programme also organises theatre outings during the academic year, and occasionally brings distinguished actors into the college for seminars and master classes. Since 1987, the programme has also conducted an annual theatre history seminar in the United Kingdom, usually during Reading Week. Over sixty pre-1914 theatres have been visited in London and the south-east, and in July 1991 a two-week seminar Where Nightingale Sang, toured fourteen theatres and Opera Houses in the north of England.
Admissions

The following is a brief description of the admission policies and procedures of the University of Toronto. Full information may be obtained from:

Admissions and Awards
University of Toronto
315 Bloor Street West
Toronto, Ontario, Canada
M5S 1A3

Telephone inquiries: (area code 416)
Admissions - 978-2100
Secondary School Liasion - 978-2771
Scarborough Campus Secondary School Liaison - 287-7563

General Admission Requirements to Scarborough College, University of Toronto

Candidates Applying from Ontario Secondary Schools

Admission Requirements for 1972-73

- Applicants must be eligible to receive the new Ontario Secondary School Diploma (OSSD).
- Applicants must present at least six (6) Ontario Academic Credits (OACs).
- One credit must be OMC English 1/English 2.
- Applicants must present credits to satisfy any pre-requisites of specific courses or specific programs in which they intend to enroll.
- Applicants whose native language is not English and who have not studied in an English language school system for more than two full years will be required to present proof of English facility by achieving appropriate standing on one of the following tests accepted by the University of Toronto:
  - TOEFL
  - Michigan English Language Assessment Battery (MELAB)
  - Test of English as a Foreign Language (TOEFL)
  - British Columbia English Language Testing Examination (CET)

Note: The above English Facility policy is currently under review.

1972 to present: 6 Grade 12 OAC credits are required.
Before 1972: 7 Grade 13 credits are required.

Prerequisites

Students should choose OACs which will fulfill the prerequisites for university courses they intend to take. These prerequisites are listed at the end of this section on page 203 and after the description of each course in the Calendar.

The average required for admission varies from year to year. Students are selected by taking into consideration a wide range of criteria including secondary school marks, distribution of subjects taken, performance in subjects relevant to the academic programme selected, results in senior division prerequisite courses, and supplementary information obtained through the Student Profile.

Other Canadian provinces

Alberta, Manitoba, Nova Scotia, Saskatchewan

- Grade 12 English and Mathematics (60% or better)

British Columbia

- before 1969: Grade 12 or 1st year University of British Columbia
- 1969 to present: Grade 12

Newfoundland

- before 1966: 1st year Memorial University
- 1966 to present: Grade 12

Prince Edward Island

- before 1983: 1st year University of Prince Edward Island
- 1983 to present: Grade 12

Quebec

- 12 academic C.E.G.E.P. courses

Admission with Transfer Credit

Students who have completed work at another University or at other Faculties of Schools of this University may be considered for admission with advanced standing credit.

Admission with Transfer Credit

Students who have completed work at another University or at other Faculties of Schools of this University may be considered for admission with advanced standing credit. Credit is granted only for work which is considered appropriate for inclusion in an academic programme at the University of Toronto.

Note that students will be required to complete at least half of their degree credits and half of their programme requirements as Scarborough College students.

Admission from Colleges of Applied Arts and Technology

1 Candidates who have completed a one-year CAAT programme (or one year of a two- or three-year CAAT programme) are not eligible for consideration for admission to the last university year unless they have also completed the final academic secondary school year of the jurisdiction in which they attended secondary school.
2 Candidates who have completed a two-year CAAT programme (or two years of a three-year CAAT programme) are eligible to be considered for admission to the first year of a degree programme.
3 Candidates who have completed a three-year CAAT programme are eligible to be considered for admission with up to five transfer credits.

International Baccalaureate

Candidates who have completed the Diploma with at least 24 points, may be considered for admission and awarded transfer credit for each higher level subject with a grade of 5, 6 or 7.

Other Countries

Students who apply for admission on the basis of work completed in other countries should write to Admissions and Awards outlining their academic qualifications.

Mature Students

Applicants who do not hold the published admission requirements may be considered for admission if:
1. they are at least 21 years of age by July 15 of the preceding Summer Session or by October 1 of the Winter Session, and
2. have been resident in Ontario as a Canadian citizen or permanent resident for a minimum of twelve months by the above dates, and
3. achieve high standing as one Pre-university course, and
4. achieve high standing in two OACs, one of which must be English OAC.

Note: Applicants who enrol in a Pre-university course as a refugee claimant must be officially recognized as a Convention Refugee or Permanent Resident at the time of admission to the faculty.
Secondary School Prerequisites

The courses below have OAC prerequisites. Students may begin the study of many languages without OAC preparation. Students who already have language skills should contact the Supervise of Studies about courses appropriate to their level of competence. Note that some programs have implicit OAC requirements. For example, the Specialist Programmes in Management and Economics require MAT260Y which in turn requires the OACs in mathematics listed below.

<table>
<thead>
<tr>
<th>Scarborough course</th>
<th>Prerequisite(s)</th>
<th>Recommended course(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry A02Y</td>
<td>Chemistry, Calculus</td>
<td></td>
</tr>
<tr>
<td>Computer Science A57H</td>
<td>Calculus, and one of Algebra &amp; Geometry or Finite Mathematics</td>
<td></td>
</tr>
<tr>
<td>Computer Science A86H</td>
<td>Algebra &amp; Geometry, Calculus</td>
<td></td>
</tr>
<tr>
<td>Fine Art Studio</td>
<td>Studio Art or Equivalent</td>
<td></td>
</tr>
<tr>
<td>French A10Y</td>
<td>French</td>
<td></td>
</tr>
<tr>
<td>Geology A01Y</td>
<td>Mathematics and Science courses</td>
<td></td>
</tr>
<tr>
<td>Mathematics A04Y</td>
<td>Algebra &amp; Geometry, Calculus</td>
<td></td>
</tr>
<tr>
<td>Mathematics A25Y</td>
<td>Calculus, and one of Algebra &amp; Geometry or Finite Mathematics</td>
<td></td>
</tr>
<tr>
<td>Mathematics A28Y</td>
<td>Calculus, and one of Algebra &amp; Geometry or Finite Mathematics</td>
<td></td>
</tr>
<tr>
<td>Physics A01Y</td>
<td>Calculus, and one of Algebra &amp; Geometry or Finite Mathematics</td>
<td></td>
</tr>
<tr>
<td>Physics A02Y</td>
<td>Calculus, and one of Algebra &amp; Geometry or Finite Mathematics</td>
<td></td>
</tr>
</tbody>
</table>

Note: Students should refer to the Programmes of Study for further information.
Awards

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 $1,500, may be held in any programme of study at the University, and in conjunction with the faculty or college admission awards. Approximately the top 100 students entering the University can be expected to be selected as University of Toronto Scholars.

Plumptre Admission Scholarship: Awarded to the student entering first year whose achievement in secondary school is considered to be the most outstanding. The scholarship is awarded in memory of Professor A.F. Wyman Plumptre, a former principal of Scarborough College.

Frederick A. Urquhart Admission Scholarships: Eight scholarships are awarded to students entering first year on the basis of exceptional academic achievement in secondary school. The scholarships are awarded in honour of Professor Emeritus F.A. Urquhart, a distinguished entomologist.

University of Toronto, Scarborough College Admission Scholarships: Approximately forty scholarships are awarded to students on the basis of excellent academic achievement.

Scarborough College Alumni Entrance Scholarship: Awarded to a graduate of a City of Scarborough high school (public or separate) who has provided evidence of valuable community service and demonstrated high academic standing. Applications are mailed to Scarborough schools in February. Scarborough Alumni Entrance Scholarship: Awarded to a student attending second year on the basis of academic excellence in the secondary school programme.

Awards

Ting Sun Tang Memorial Entrance Scholarship: Awarded to a student on the basis of excellent academic achievement in the secondary school programme. Donated by the Federation of Chinese Canadian Professionals (Ontario Education Foundation).

In-course awards

University of Toronto Scholars Programme - In-course Scholarships: The University will identify outstanding undergraduates completing 1st, 2nd and 3rd years at University of Toronto Scholars. It is expected that these top students will receive awards of at least $1,000. The first awards under this programme will be made to students completing first year in 1993.

A.D. Allen Scholarship: Awarded to the outstanding student in each year at Scarborough College, in any field of study. The scholarships are awarded in memory of Dr. A.D. Allen, a former principal of Scarborough College.

Vincent Bladen 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. Bladen, a former member of the faculty in Economics.

Scarborough College In-course Scholarships: Awarded to the outstanding students in each year at Scarborough College.

Stanley Kostu Todorow Scholarships: Awarded on the basis of academic excellence to one or more students registered in a Life Sciences or Physical Sciences programme who leads to a Bachelor of Science degree.

Norman F. Brown Memorial Award in Humanities: Awarded to a student enrolled in the second or third year of a programme in the division of Humanities on the basis of excellent academic achievement.
The Hudson’s Bay Company Scholarship
Awarded to the student who has demonstrated outstanding academic achievement at the end of third year.

The University of Toronto Women’s Association Lois Dave Memorial Scholarship
Awarded to a student on the basis of their excellent academic achievement in the third year of a four-year undergraduate degree program.

The All Taysby Scholarship
Awarded to a student who demonstrates excellent scholarship in political geography, geography of resources, studies of developing nations, Canadian studies, or an appropriate related field. The scholarship is awarded in memory of Professor All Taysby, a former member of the faculty in Geography. Suitable candidates are nominated by members of the Scarborough College faculty.

Scarborough Campus Student Council Prizes
Awarded to a student in good academic standing entering the second, third or fourth year who has made an outstanding contribution to the Academic, Social or Cultural Life of Scarborough College. Application required.

Bladen Prize in Economics
Awarded on the basis of an essay submitted by a student specializing in Management or Economics on any subject covered by a B, C or D level course in Economics.

Tom McVest Prize in Anthropology
Awarded to the outstanding student entering the final year of the Major or the Specialist Programme in Anthropology.

John Founder Prize in Astronomy
Awarded to a full-time student entering the third year of a physical sciences program on the basis of excellent achievement in AST007 and one B or C level course in Astronomy.

John S. Moir Prize in Canadian History
Awarded to the student with the highest standing in HIS304Y Introduction to Canadian History.

William Beardsmore Memorial Prize in History
Awarded to the student completing third year, who in the opinion of the members of the teaching staff in History, has excelled in the study of History.

The Morris Kreve History Prize
Awarded to a student entering the third year of the Major or Specialist Programme in History on the basis of academic performance (at least B standing) and financial need. Emphasis is placed on academic performance. Application required.

Defoe/Context Essay Prize
Awarded on the basis of an essay, 2,500 to 5,000 words in length, on any topic within the general field of Canadian Studies. The essay should have Canada as its primary, principal or exclusive focus. Essays are evaluated by instructors.

McClintock 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.

The Oxford University Press English Essay Prize
Awarded for the best essay written for an English course, in the past academic year.

The Margaret H. McCo/Johnston Scholarship
Awarded to the student enrolled in a major or specialist program(s) in a modern language, to, on entering the third or fourth year, who has the highest grade point average in courses taken to satisfy the program(s) (minimum gpa 3.2).

Anita Fitter/Gerald Prize in Women’s Studies
Awarded for the best essay in the area of Women’s Studies.

Dr. Vivian Faski Memorial Prize in Psychology
Awarded to a full-time student entering the fourth year of the Specialist Programme in Psychology on the basis of excellent academic achievement.

The Katherine Nagel Philosophy Prize
Awarded to the student in the Major or Specialist Programme in Philosophy before the beginning of the third or fourth year of study whose grades and performance in Philosophy, in the opinion of the Faculty in Philosophy, have best demonstrated excellence in the subject.

Margeson Scholarship in English
Awarded to an outstanding student who has completed the second year of the Major or Specialist Programme in English.

Leigha Lee Browse Scholarship in Drama
Awarded to a student displaying outstanding ability in the dramatic arts who is either continuing in a Drama Programme at Scarborough College or is graduating and has registered in an advanced training program in the dramatic arts. Application required.

The Gilchrist Award in Cell and Molecular Biology
Awarded to the student entering the fourth year of study in the Specialist Programme in Cell and Molecular Biology who has completed at least ten of the required full course equivalents of the Program requirements and who has the highest grade point average in the Program (minimum 3.0 GPA).

The Gilchrist Award in Computer Science
Awarded to an outstanding student entering the third year of a Major Programme or fourth year of a Specialist Programme in Computer Science.

The Gilchrist Scholarship in Terrain and Environmental Earth Sciences
Awarded to the student in the Specialist Programme in the Terrain and Environmental Earth Sciences who has the highest aggregate standing at the end of the third year of study in the required courses of the program.

The Gilchrist Scholarship in Physical Sciences
Awarded to the outstanding student who (i) has achieved at least an average of A on five full credits, of which three must be physical sciences courses, in the first year of full-time study and (ii) is registered as a full-time student in a physical sciences Specialist Programme in second year.

Revels-Packard Calculator Award
Awarded to students entering a Specialist Programme in Computer Science who have demonstrated excellence in sciences and computer sciences.

The Scarborough College Physics Prize
Awarded to the student in a Physics Specialist or Major Programme, including joint Programmes, who has the highest combined grade point average in PHY101, PHY103, PHY104, PHY171 and PHY179, provided that the average is at least 3.3 (B+).

The William D. Pek Award in Biology
Awarded to a full-time student entering the second year of any programme in the biological sciences on the basis of excellent achievement in BI020Y/230Y/240Y Introductory Biology (minimum 3.3 gpa / B+). Emphasis will be placed on the laboratory component of the course and overall contribution to the class.

Scarborough 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 David Radford 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 3.30/B). Application required.

Management Accounting Student Prize
Awarded to the student who has completed the third year of study in the Specialist Programme in Management or Management and Economics, and who has completed the following courses with the highest average grade: MGT100Y, MGT102Y, MGT172H/174H.

North Scarborough 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.
Ernst & Young of Scarborough Award in Management
Awards to an outstanding student entering first year in a Management Program, who has achieved cumulative grade point average of at least 3.3. Application required.

The Harvey Babiak Award in Financial Accounting
Awarded to a student completing the third year of the Chartered Professional Accountant (CPA) Program, who has achieved a cumulative grade point average of at least 3.3. Application required.

Warner-Lambert Arts Administration Scholarships
One scholarship will be awarded to a student enrolled in the Co-operative Program in Arts Administration who has achieved outstanding academic achievement. This scholarship will be awarded to a student enrolled in the Co-operative Program in Arts Administration who has achieved outstanding academic achievement. Application required.

SKF Canada International Development Scholarship
Awarded to a student enrolled in the Co-operative Program in International Development Studies who has achieved outstanding academic achievement.

United Church of Canada Scholarship
Awarded to a student enrolled in the Co-operative Program in International Development Studies who has achieved outstanding academic achievement.

Canadian Society for Chemistry Silver Medal
Awarded to a student entering the fourth year of a Specialist programme in chemistry who has the highest standing in the programme in third year.

Canadian Society for Chemistry, Toronto Section Book Prize
Awarded to the most improved student entering the fourth year of a Specialist programme in chemistry.

Division of Physical Sciences Book Award in Chemistry
Awarded to a student entering the third year of a programme in chemistry based on academic achievement in the courses required for the programme. Application required.

Roth & Hans Canada Scholarship in Chemistry
Awarded to an outstanding student entering either the third or fourth year of a major programme in chemistry or (b) the third or fourth year of a Specialist programme in chemistry.

Andrew Tang Memorial Scholarship in Science and Canadian Studies
Awarded to an undergraduate student whose academic performance and extra-curricular activities in the area of Chinese studies and Sinic-Canadian studies has exhibited commitment to Chinese-Canadian cultural and economic life.

Samuel Beatty In-Course Scholarships
Awarded to students enrolled in second, third or fourth year, in a Specialist Programme offered by the departments of Mathematics, Physics or Computer Science (Faculty of Arts and Science, Scarborough College) on the basis of academic performance and financial need. Application required.

APUS Scholastic Awards
Part-time undergraduate students who (a) have completed at least five 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 apply. Application required.

APUS Award for the University of Toronto's Sesquicentennial
Part-time undergraduate students who (a) have completed at least five full courses with a B average (G.P.A. of 3.0) in the last five full courses, and (b) have demonstrated outstanding achievement or commitment to activities distinct from their University studies or have overcome adverse circumstances in order to attend University, may apply. Application required.

Other awards are available. Students should check the "Awards" binder in Room S415.
average is between 3.20 and 3.49. Other students with a cumulative grade point average of 3.20 or better will be considered on an individual basis.

Bursaries
University of Toronto
Undergraduate Bursaries
Applicants for bursaries must demonstrate financial need. Applicants may be obtained from the Counselling Services Office. Deadline: November 1; however, applications will be accepted after this date should they arrive after financial aid opportunities are still available.

Edward A. Pickering Placing Bursaries in Arts Administration
Awarded to students enrolled in the Co-operative Programme in Arts Administration undertaking Placement, on the basis of financial conditions during Placement. Applications are required. Donated by the Corporation of Massey Hall and Roy Thompson Hall.

The MacDonald Bursary
Awarded to a full-time degree student registered in second, third or fourth year who achieved at least a Grade B standing in the previous year and who can demonstrate financial need.

Ontario Student Assistance Programmes
Canadian citizens or permanent residents who have established themselves as Ontario residents, and who demonstrate financial need, may be eligible for interest-free loans or grants. Applications are available from the Counselling Services Office. The Office of Student Awards inquiry number is 416-978-7950.

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 by the Registrar periodically. Students whose registration contravenes the regulations will be withdrawn from courses. Members of the Registrar’s Office and Counselling Services Office will assist students in interpreting the regulations and explaining their application in particular cases. Where appropriate, they will assist those who encounter special difficulties in requesting special consideration.

Calendar changes
The information published in this calendar outlines the rules, regulations, curricula and Programmes for the 1992 Summer Session (May to August) and the 1992-93 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
Scarbrough 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.

St. George Campus or Erindale Campus
Students who propose to register in courses on the St. George or Erindale campus should consult page 220 of this Calendar.

Registration
Full registration information and the schedule of fees will be provided by the Registrar’s Office, as follows:

Summer Session
Students who were registered at the College in the 1991 Summer Sessions or the 1991-92 Winter Session should pick up registration material from the Registrar’s Office beginning on April 1. Signs will be posted at the College when it is available. New students and students reactivating their enrolment after a year away will be mailed their registration material upon request. There is a fee for students reactivating their enrolment.
Course key

1. The Discipline Abbreviation
- The first three letters of the course code indicate the level of the course with "A" indicating the most elementary level and "D" the most advanced.
- The fourth letter of the course code indicates the level of the course that the student has to satisfy.
- The fifth and sixth letters of the course code identify the course numbers. In most disciplines, these numbers have no significance, except to identify the course in a shorthand form.

4. Credit Value and Duration of a Course
- The final letter of the course code indicates the credit value and duration of the course as follows:
- "A" full course, Sep.-May
- "B" half course, Sep.-Dec., May-June
- "C" half course, Jan.-May, July-August
- "D" full course, Sep.-May, May-August

Final Credit Winter Semester
- "V" full course, Sep.-May, May-August
- "F" 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, ANT401Y is an elementary course in Anthropology taught throughout the summer and worths a full course credit. PHIL421T is an advanced course in Philosophy taught in the second term and worth one-half a course credit.

Exclusions, Prerequisites and Corequisites

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.

Prerequisites
- A student must have passed the prerequisite course before enrolling in the course being described. The prerequisite must be passed in order to be guaranteed to obtain the specific waiver. The instructor may refuse to waive prerequisites if he feels that there are adequate grounds for so doing. If a student registers in a course without meeting its prerequisite and without obtaining a specific waiver, the student may be withdrawn from the course at any time during the term. 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.

Corequisites
- Students must either already have passed the corequisite course, or must enrol in it at the same time as they take the course being described. Students 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 corequired course without obtaining a specific waiver of the corequisite, they may be withdrawn from the course at any time during the term. Students who are not withdrawn from the course remain in it at their own risk, for lack of the corequisite is not grounds for special consideration.

Exclusions, Prerequisites and Corequisites

Some exclusions and some prerequisite and corequisite courses are included in parentheses. This indicates that the course is no longer in the College's curriculum. Students who have already passed an excluded course contained in parentheses may not take the course being described. Students who have completed, in a previous session, a prerequisite or corequisite course contained in parentheses may make use of the course to meet the requirements of the course being described.

Supervised Reading, Supervised Research and Independent Study Courses

Students in these courses work under the direction of a faculty member with whom they must periodically or at whose laboratory they work. Students must obtain written permission of instructors before enrolling in them.

Course selection

In selecting their courses, students must adhere to the following guidelines:

1. Prerequisites and corequisites for each course, as listed in the course description, 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 register for credit in a course if they have already passed that course. Students may 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.
Five students may normally select as many courses as they wish to take. Students who have previously taken courses are recommended to take courses that are most similar to the courses they have already taken.

6. Students must register for their courses in accordance with instructions issued by the Registrar. Only students who wish to change their registration should do so by contacting the Registrar's Office at least 48 hours before the deadline.

7. Students are not allowed to register for courses outside of their major area of study unless they have obtained written permission from their academic advisor.

8. Students who wish to drop a course must do so within the first two weeks of the semester, or they will be required to take the course the following semester.

Degree requirements

Students who first registered at the College before the 1980 Summer Session may, if they wish, complete the degree requirements outlined in the 1980 Summer Catalogue. Students who registered at the College after the 1980 Summer Session may, if they wish, complete the degree requirements outlined in the 1979-80 Scarborough College Catalogue.

Three-year degree

To qualify for a three-year degree, students must:

1. pass at least fifteen courses
2. complete the requirements of a Major Programme or a College Programme or two Minor Programmes.
3. earn a cumulative grade point average of at least 1.00.

Four-year degree

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 Major Programmes and either a Major Programme or a College Programme.
3. earn a cumulative grade point average of at least 1.60.

B.A. and B.Sc. degrees

The type of degree students receive is determined by the College in which they were enrolled. Students must meet the requirements outlined in the 1979-80 Scarborough College Catalogue.

Transfer Students

Students who transfer to the College must complete at least half of their credits and half of their degree requirements at the College of the year they entered.

1. A course, where it is used in two ways: (a) to describe a full or half course such as "the last day to withdraw from a course", or (b) to describe a number of full courses, or the equivalent in full courses, will be used as the basis for calculating the cumulative grade point average.

2. A specific course, "A," is included in the computation of the cumulative grade point average.

3. A specific course, "B," is included in the computation of the cumulative grade point average.

Programme requirements

Specialist Programmes

1. Specialist Programmes are designed to provide a specific area of study within a limited area defined as a discipline, a group of disciplines, or a particular theme or area of study. A Specialist Programme may be taken only as part of a four-year degree and will consist of at least nine courses. There are four Specialist (Co-operative) Programmes (see page 53).

2. A list of Specialist Programmes may be found on page 53.

Major Programmes

2. Major Programmes are designed to provide a comprehensive area of study defined as a discipline, a group of disciplines, or a particular theme or area of study. A Major Programme may be taken as part of either a three-year or a four-year degree and will consist of six to eight courses.

3. A list of Major Programmes may be found on page 53.

College Programmes

3. College Programmes are designed to provide a broad range of learning opportunities for students interested in a wide variety of subjects. A College Programme may be taken as part of either a three-year or a four-year degree. A list of College Programmes may be found on page 16.

Minor Programmes

4. Minor Programmes are designed to provide study in a specific four-year programme in a different area of the curriculum. A Minor Programme may be taken as part of either a three-year or a four-year degree and will consist of four full courses, including at least one C or D level course.

Approved Individual Programmes

5. Students may propose individual Programmes of study, other than those described in this Calendar. Such proposals will be considered only by the student, who must have cumulative grade point averages of 3.5 or greater. To be approved, individual Programmes must be approved by the College of the degree and the student's academic advisor. The College may require the student to take additional courses before approval.

Course selection and registration for Programmes of study

1. Students are responsible for ensuring that they have completed the requirements for their degree. They must register for at least 12 credits each semester.

2. Students must register for at least 15 credits each semester.

3. Students may register for at least 18 credits each semester.

4. Students may register for at least 21 credits each semester.

5. Students may register for at least 24 credits each semester.

6. Students may register for at least 27 credits each semester.

7. Students may register for at least 30 credits each semester.

8. Students may register for at least 33 credits each semester.

9. Students may register for at least 36 credits each semester.

10. Students may register for at least 39 credits each semester.

11. Students may register for at least 42 credits each semester.

12. Students may register for at least 45 credits each semester.

13. Students may register for at least 48 credits each semester.
Standing in a course

Grading scheme

Students are assigned a grade in each course, as follows:

<table>
<thead>
<tr>
<th>Grade Point</th>
<th>Percentage</th>
<th>Equivalent</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.3</td>
<td>90-100</td>
<td>Excellent</td>
</tr>
<tr>
<td>A</td>
<td>4.0</td>
<td>85-89</td>
<td>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>Good</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
<td>75-76</td>
<td>Good</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
<td>70-73</td>
<td>Inadequate</td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
<td>67-69</td>
<td>Inadequate</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
<td>66-66</td>
<td>Inadequate</td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
<td>60-62</td>
<td>Inadequate</td>
</tr>
<tr>
<td>D+</td>
<td>1.3</td>
<td>57-59</td>
<td>Inadequate</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
<td>53-56</td>
<td>Inadequate</td>
</tr>
<tr>
<td>D-</td>
<td>0.7</td>
<td>50-52</td>
<td>Inadequate</td>
</tr>
</tbody>
</table>

CR

No value

Credit in a
Credit/No
credit course

E

0.3

35-49

Inadequate

F

0.0

0-34

Inadequate

NCR

0.0

No value

No credit in
Credit/No
credit course

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 deemed to be automatically equivalent 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/NCR) system.

The grade of "No credit" is a failing grade. Where students earn a grade of "Credit" in a course, the course is not included in the grade point average; where students earn a grade of "No Credit", the course is included as an F (value zero) in the grade point average.

Agrégat standing

The Sub-committee on Standing may, on appeal, assign a grade of "Agrégat standing" (AEG). This grade is assigned on the basis of a student's academic or similar evidence demonstrating that a student is unable to complete course requirements within a reasonable time, and where a student has already completed at least 60% of the work of the course with a term mark of C minus or better. Where a student is assigned Agrégat 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 215). The course and its grade will appear on the student's transcript (designated as an extra course) but the grade will not be included in any grade point average.

Overall standing

Grade point averages

At the end of each summer session (May to August) and each winter session (September to May) both a sessional and a cumulative grade point average (GPA) will be calculated for each student, and shown on the student's transcript.

1. A grade point average is calculated as follows: the grade points earned in each course and one-half the grade points earned in each full course are added together and this total is divided by the number of full courses (or equivalents) taken.

2. 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.

3. 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's Faculty of Arts and Science. It is determined at the end of each Summer and each Winter Session:

1. In good standing
   Students who maintain a cumulative grade point average of 1.00 or better shall be said to be "in good standing".

2. On probation
   Students shall be placed on probation who have attempted at least two and one-half courses in the College and have a cumulative GPA of less than 1.60.
   - Students returning from suspension (under 5) below or under any provision in previous College rules shall be placed on probation again.

3. Probation cleared
   Students may clear probation by achieving a cumulative GPA of 1.60 or better.
   Students who have cleared probation shall be said to be again "in good standing".

4. Probation continued
   Students may continue on probation by achieving a cumulative grade point average of at least 1.60 in each session (summer or winter) until such time as they return to good standing.

5. Suspended or refused further registration
   Students who, by the end of a given session, whether Summer (May to August) or Winter (September to March), have not either cleared probation or achieved a satisfactory grade point average of at least 1.60 shall be liable for suspension or refusal of further registration as follows, regardless of the number of courses taken in the session:
   - Students who have incurred no previous suspension will be suspended for one year.
   - Students who have incurred one prior suspension will be suspended for two years.
   - Students who have previously incurred a three-year suspension will be refused further registration in the College.

Determination of academic status for students admitted on condition

In certain circumstances, students who do not meet normal admission requirements may be admitted "on condition." The academic status of such students is determined according to the following rules:

1. The status of students admitted on condition will be assessed at the end of the session in which they will complete their second full-course equivalent.

2. Where such students earn a cumulative grade point average of 1.70 or better, their conditional status will be removed, and they will be said to be "in good standing".

3. Where such students earn a cumulative grade point average of less than 1.70, they will be suspended for one year.

4. Upon their return from suspension, their academic status will be assessed as it is assessed for any other student returning from suspension.

Study at other institutions or other divisions of the University of Toronto

Although courses taken at other institutions or other divisions of the University of Toronto (with the exception of the Faculty of Arts and Science) are not included in grade point averages, they are taken into consideration and may affect a student's academic status.

Courses on other campuses

Students are permitted to take some courses at 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

The total number of courses completed by students majoring in Arts and Science and enrolled in the College during a given term shall not exceed the number of courses required in the University of Toronto. The numbers of courses governing the programmes are different.

Letters of Permission

To take a course at another university, students must, in advance, apply for and receive a "Letter of Permission" from Scarborough College. Requests should be addressed to the Assistant Registrar - Admissions, Room 5415. Requests should include the name of the university, the course number, title and description. Courses requested must be appropriate for Arts and Science degree credit at this university. In addition the student must give reasons why the Letter of Permission is necessary.

To be considered, a student must have completed the equivalent of one year of full-time study and be in good standing. A maximum of 3.0 credits may be obtained on a Letter of Permission. If a student has received more than 5.0 transfer credits upon admission, it is unlikely that a Letter of Permission will be allowed. Letters of Permission are not normally granted for study at institutions within Metropolitan Toronto and surrounding regions. Only 0.0 credits at the C or D level will be permitted to be taken on a Letter of Permission. A student who completes the final course(s) for the degree during the Winter Session may not apply to graduate in June convocation but may apply for graduation at the November convocation. A fee will be charged for each Letter of Permission.

Special Note: French Summer Immersion Programmes

The Department of the Secretary of State in co-operation with the Ministry of College and Universities (Ontario) sponsors the Summer Language Tutorial Programme. Students interested in this six-week immersion programme (in Quebec or elsewhere in Canada) should complete the necessary application. The programme is offered on a competitive basis. Students must write to the Assistant Registrar - Admissions and the StudyElsewhere Supervisor in French for advice about choosing three institutions offering courses which most closely correspond to the curriculum at the University of Toronto. Students must apply to study at a university in setting the University of Toronto. The programmes are different.

(1) Letters of Permission

To apply for a StudyElsewhere programme, students must obtain an application from the Assistant Registrar - Admissions or Vice-Principal and Associate Dean. The application requires details about the proposed course of study and asks students to show how the intended studies will enhance their studies at Scarborough College. Students who intend to count the courses towards programme requirements must obtain the approval of the Programme Supervisor before submitting application. Students normally apply for a StudyElsewhere programme during the last year of a four-year programme. However
Degrees

Scarborough College students may earn either a Bachelor of Arts or a Bachelor of Science degree. Students may elect to receive their degree after having completed the requirements for a three-year degree or a four-year degree. Students who wish to graduate must notify the Office of the Registrar either through the Student Telephone Service or on a degree request form by 15 February for graduation at Spring Convocation or by 31 August for graduation at 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.

Students who have elected to graduate after having completed a three-year degree may still choose to complete the requirements of the four-year degree; a second degree will not be conferred but completion of the four-year degree requirements will be noted on the student's transcript. Students who have received a three-year degree, and wish to receive certification of completion of a four-year degree, should notify the Office of the Registrar by means of a degree request form.

Students who have requested their degree will be mailed complete information about the time and arrangements for the Convocation.

For all convocations, held twice annually, the Spring Convocation held in June and the Fall Convocation held late in November, students are required to indicate completion of a "Bachelor of Arts" or "Bachelor of Science" degree. No distinction is made on diplomas between three- and four-year degrees not in programme indicated.

Academic transcripts

The academic transcript is the official student record of the academic record of each student.

Contents

The transcript records the following information:
1. Information to identify the student: full name and university student number.
2. The student's academic record, listed chronologically by session.

- each course attempted, its abbreviated title, and its grade;
- the seasonal grade point average;
- the cumulative grade point average at the end of the session;
- the student's academic status at the end of the session; in good standing, on academic probation, suspended for one year, suspended for three years, refused further registration, or suspension deferred;
- completion of degree and Programme requirements, and date of conferment of the degree;
- any academic honours awarded: scholarships, prizes or medals awarded by the College or by the University, inclusion on the Scarborough College Honours List, and graduation with high distinction or with distinction.

Ordering copies

Students may obtain copies of their academic transcripts, subject to reasonable notice and upon payment of a fee. Copies of transcripts may be requested in person or by letter only. As a student's signature is required to authorize release of the transcript (in order to protect confidentiality of records), telephone requests cannot be accepted.

To order copies of transcripts, students should visit the Office of the Registrar, or should write to: Office of the Registrar, Scarborough College, University of Toronto, 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 institutional recipients bear a duplicate 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 insist that the transcript copy be sent directly to them.

Policy on access to student records

1. Prerequisite

(a) Academic records of students are ultimately the property of the University, and it is the responsibility of the University to establish overall University policy in this area. This policy establishes university-wide aims, objectives, criteria and procedures which shall apply to the academic records of students of academic divisions of the University.

(b) The purpose of this policy is to combine consistency with flexibility in such a way as to ensure that:
(i) Students, alumni and former students are allowed as great a degree of access to their own academic records as is academically justifiable and administratively feasible.
(ii) A student's right to privacy in relation to his or her academic records is safeguarded as far as both internal university access and external public access are concerned.
(iii) There will be a basic university-wide consistency in the kinds of information collected, recorded, filed and made available.
(iv) In keeping with the pluralistic nature of the University academic divisions may retain some flexibility in the implementation and application of the procedures established within this document.
(c) Individual divisional regulations and procedures on access to student records of each, including the statement in the divisional calendar concerning such, shall be reported by the Provost to the Committee on Academic Policy Programs. Any subsequent revisions shall also be reported.
(d) This policy supersedes the 1979 access policy for undergraduate student records and the 1981 access policy for graduate student records.
within a division. Such compliance shall occur within 30 days of receipt of the request, or within such lesser period as the division may determine. (ii) 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(b) and to have his or her official student academic record supplemented with comments so long as the source of such comments are identified and the official student academic record remains securely within the custody of the academic division. Reference to such comments does not appear on reports such as transcripts or statements of results. (iv) It is assumed that all documents relating to petitions and appeals (Section 3(b)(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 Statutes Powers Procedure Act, 1971 of Ontario requires that where the good character, propriety of conduct or competence of a party is in issue in any proceedings in a tribunal to which the Act applies (such as the Academic Appeals Board of the Governing Council), the party is entitled to be furnished prior to the hearing with "reasonable information" of any allegations with respect thereto. (b) Access by alumni and former students (i) An alumni or former student may examine and have copies made of his or her official student academic record defined in Section 3(a) above. (ii) A request from an alumni or former student to examine the portion of the official student academic record as defined in Section 3(a) shall be made in writing and shall be complied with by the responsible authorities within a division. Such compliance shall occur within 30 days of receipt of the request, or within such lesser period as the division may determine. (iii) An alumni or former student shall have the right to challenge the accuracy of his or her official student academic record only under such terms and conditions as the academic division may determine and publish in the divisional calendar. (c) Access by University Staff and members of official University and divisional councils and standing committees Members of the teaching and administrative staff of the University and members of official University and divisional councils and committees shall have access to relevant portions of an official student academic record for purposes related to the performance of their duties. A staff member requesting information must have a legitimate need to have the requested information for the effective functioning of the position or office. Access to medical information as defined in Section 5(ii)(v) shall be granted to members of the teaching and administrative staff only with the prior expressed or implied consent of the student and, if applicable, in the case of a medical assessment, the organiser (physician, etc.) of such. The Department of Alumni and Community Relations shall have access to appropriate personal information on former students for the purpose of maintaining correspondence with alumni. (d) 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) in so far as it is necessary for the association and the association number of students. Recognized campus organizations for that legitimate internal use of that organization. The Student Administrative Council, Graduate Student Federation Association for Part-time Undergraduate Students, and The Students' 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 sessional address and
telephones number of students as long as there is a tradition of law. Requests granted to any persons or agencies outside the University for access to a student's academic record shall be kept on file within a division. The release of the information concerning alumni and former students contained in the portions of the academic record as defined in Section 6(a) shall also be governed by the above provisions.

(vi) General statistical material drawn from academic records not disclosing the identities of students, alumni and former students may be released for research and informational purposes authorized by the University by the academic division maintaining these records.

(vii) In the event that a student, alumna or alumnus or a former student is deceased, the executors of his or her estate shall have access to the student's official academic record under the same terms as would the individual if he or she were still living.

(f) Right of access

The University reserves the right to withhold access to the statements of marks and transcripts of students, alumni and former students who have outstanding debts or obligations to the University in accordance with the Policy on Academic Sanctions for Students Who Have Outstanding Unsatisfactory Obligations. The University may also choose not to release the official diploma to such persons nor to provide written or oral certifications of degree on their behalf.

5. Custody and retention of official students academic records

(a) Academic records of students are normally under the custodial responsibility of the academic division. Every academic division maintains all student academic records shall draw up plans for the eventual disposition of their records in consultation with the University Archivist and in accordance with an approved records schedule which is in compliance with this policy.

(b) Those portions of the official records of students as defined in Section 3(a) shall be maintained permanently. Each academic division's records schedule shall specify the document, form or medium in which these records will be maintained.

(c) Official student academic records preserved in the University Archives because of their archival value shall become open to researchers authorized by the University seventy-five years after a student has ceased to be registered.

6. The University's responsibilities with reference to the official academic records of students, alumni and former students

(a) Students shall be informed of University policy and divisional procedures with respect to their official student academic records.

(b) Academic divisions, administrative divisions and campus organizations shall develop administrative procedures in support of this policy.

(c) Academic records shall be kept at all times under appropriate security.
University grading practices policy

The following is the text of the University grading practices policy. Text enclosed in square brackets [ ] has been added to clarify or interpret the policy as it applies to Scarborough College.

Purpose

The purpose of the University Grading Practices Policy is to ensure:

(a) that grading practices throughout the University reflect appropriate academic standards;
(b) that the evaluation of student performance is made in a fair and objective manner against these academic standards;
(c) that grade scales, while remaining suited to the particular circumstances of every division, are comparable with each other;
(d) that the academic standing of every student can be accurately assessed even when courses have not 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.

Distribution of policy

A copy of the Grading Practices Policy as well as the description of the grade scale used in a division and the substance of divisional regulations indicated in Part II of this Policy shall be published in the Calendar of the division. Similarly a copy shall be given to all students upon arrival regulations and to all instructors and others, including teaching assistants, involved in the evaluation of student performance.

The Policy is in three parts: Part I details procedures to be adhered to in divisional regulations adopted as part of this Policy, and Part II in an administrative appendix available upon request from the Office of the Provost.

PART I: Grades

Meaning of grades

Grades are a measure of the performance of a student in individual courses. Each student shall be judged on the basis of how well he or she has completed the course materials.

1.1 A grade assigned in a course is not an assessment of standing within a program of studies. To determine the requirements for credit and standing in a program of studies, the academic regulations of the division in which the program is offered should be consulted.

1.2 Grades for each course shall be assigned with reference to the following meaning (which may be expanded in the divisional regulations under Part II):

- Excellent
- Good
- Satisfactory
- Marginal
- Inadequate
- Wholly inadequate

Grade scales

1.3 Once a judgement on the performance of the student has been made, the following grade scales may be used in accordance with divisional practice:

(a) a compatible letter grade scale;
(b) the numerical scale of marks; and/or
(c) the scales Honour/Pass/Fail and Credit/Pass/Fail [For the scale used at Scarborough College, see page 219.]

Grades vs. scores

1.4 Grades should always be based on the approved grade scales. However, students may find that on any one evaluation they may receive a numerical or letter mark that reflects the score achieved on the test or essay. The cumulative score may not be directly identified with the final grade. Grades are final only after review by the divisional review committee described below.

1.5 A table of correspondence and a translation table are described in the Appendix for each of the letter grades scales referred to in 1.3(a) in order to allow the conversion, when necessary, of a grade assigned from one scale to the corresponding grade in another. It should be noted that these tables are not to be used to translate a score to a grade directly.

Grade reporting

1.6 Only one letter scale, as referred to in 1.3(a) may be used in a division for assigning grades, but the numerical scale and the HONOR/CRONC scales, as referred to in 1.3(b) and (c) respectively, may also be used. The grades assigned in a course, however, must all be from the same scale.

1.7 Grades in each course shall be assigned according to the practice of the division offering the course.

1.8 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 table of correspondence and translation tables defined in the Appendix.

1.9 With the exceptions of 1.3(b) and CRONC scales, two different letter grade scales may not be used on the same transcript.

1.10 A grade not reported in the form originally assigned by the offering division must on request be made available to the student in that form by the reporting division.

1.11 All non-grade symbols used in 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 A2.

1.12 The information in grade reports and transcripts must be communicated to the user, whether within or outside the University, in a clear and meaningful way. To this end, transcripts issued by every division of the University must indicate the relationship between the divisional 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 II: 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.
II.1 Divisional Review Committee

In each division, a committee chaired by the divisional head or a designate, and where appropriate, an additional committee structure, with the chair (or their designate) departmental officers or academic units of divisions serving as chairs, shall:

(a) administer the implementation of the University Grading Practices Policy at the divisional level and oversee the general consistency of grading procedures with the division;
(b) 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;
(c) review, adjust 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.

II.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 day of course enrolment) 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 department.
(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 exemption may be determined by the division.
- [Exempt from this requirement are advanced seminar courses or 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 a comprehensive examination.]
(d) In courses that meet 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 exemption may be determined by the division.
- [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 comparable examination periods in the Summer Session).]
- 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 approval of the instructor and approval of the appropriate Divisional Chair.
- The following courses may be exempted from the requirement for examinations, upon annual report of the instructor and approval of the appropriate Divisional Chair: advanced seminar courses; supervised reading or research courses; field courses; and performance courses in 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 an oral examination may be required in conjunction with any piece of 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 results of the oral examination.
- The relative value of each part of an examination shall be indicated to the student. In the case of a written examination, the value shall be indicated on the examination paper.
(e) Commentary on assessed term work and time for discussion of it shall be made available to students 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 day for withdrawal from the course without academic penalty.
- [The following two categories of courses shall be exempt from this requirement: field courses in 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 lecture courses which constitute two-thirds of the final mark.]
- 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 in placing 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).

II.3 Procedures in the event of disruptions

Principles
The following principles shall apply in event of disruption of the academic program:
1. The academic integrity of academic programs must be preserved;
2. Students must be treated in a fair manner recognizing their freedom of choice to attend class or not without penalty.

Procedures
(a) The Vice-President and Provost, or the Academic Board, shall declare when a disruption of the academic program has occurred. The Provost shall take steps to inform the University community at large of the changes to be implemented, and will report to the Committee on Academic Policy and Programs for the implementation of the procedures and changes to the status of the academic program.
(b) Individual instructors or multi-section classes are responsible for courses that are disrupted shall determine, as the disruption proceeds, whether any changes to classroom procedures are needed to complete the course.
(c) Changes to the classroom procedures should, where possible, first be discussed with students prior to the class in which a voice 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) Where classes are not able to convene, the instructor, with the prior approval of the chair in multi-departmental faculties or the division head, shall make changes deemed necessary to the classroom procedures. In the absence of the instructor and students, any changes will be made by the division head and require the approval of the Provost. Where courses are to be cancelled, approval of the divisional council is required. If the divisional council cannot agree, approval of the division head, or in the absence of the division head, the approval of the Provost, is required.

(f) Students must be informed of changes to classroom procedures. This may be done by circulating the changes in writing to the class, posting in the departmental and faculty offices, reporting to the divisional council, as well as listing in the campus press. If the faculty member agrees with the students, the instructor's name must be informed, at class, of any changes made during the discussion.

(g) Where changes to the classroom procedures are made, students who do not wish to complete the course under the revised procedures may withdraw without academic penalty. This must be done prior to the last day of classes.

(h) Where students have not attended classes that are necessary for their grades, 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 reasonable alternative access to material covered should be provided.

(i) A student who feels, owing to his or her special circumstances, that changes to the classroom procedure have unreasonably affected his or her grade may appeal the grade following the procedures as set out in each division.

II.4 Assessment in clinical and field settings

Divisions may make reasonable exceptions to the classroom procedures described above in circumstances such as field or clinical courses where adherence to these procedures is not possible. Nevertheless, it is obligatory that the assessment of the performance of students in clinical or field settings should be fair, human, valid, and reliable and in accordance with the principles outlined 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 deadlines for the course and:

(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-term performance evaluation with feedback to the student;

(c) Written documentation of the final assessment. In addition, for such clinical and field experiences, divisions must ensure that:

(1) Clinical and field assessors are fully informed regarding University, divisional and course policies concerning evaluation procedures;

(2) Any exception from the above would require a divisional request with explanation for approval by the Governing Council.

II.5 Grade review and approval process

The following principles and procedures shall govern the grade review and approval process.

(a) The distribution of grades in any course shall not be predetermines by an equation of factors that specifies the member or percentage of grades allowable 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 department. Such broad limits shall recognize that considerable variance in class grades is not unusual. The division may request an explanation of any grades for a course that exceed the limits and hence appear to be based on the approved grade scale or that appear anomalous in reference to the Policy. It is understood that this section shall only be used when the class size is thirty students or greater. Each division shall make known in the divisional Calendar the existence of any such limits.

(c) The criteria 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 standards 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 division's 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 of grades, a description of the methodology used to adjust the grades, and a description of the divisional appeal process.

(f) Where a departmental 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 students or the instructor with a description as to the reasons for the change and the methodology used.

(g) Past statistical data, 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 grade distribution is anomalous. Rather, the information should provide part of the basis for an overall review of the grade distribution.

(h) Where class grades have been changed, or when the Divisional Review Committee had reservations about the grades, the issue will be taken up with the instructor by the division or department head, with a view to ensuring that the Grading Practices Policy is followed in future.

Appeals procedure

Every division shall establish divisional appeal procedures. Students may appeal grades according to procedures established for that purpose in the division. The appeal may be made whether the grades have been altered by the review process or not. These procedures shall be outlined in...
11.6 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. Exemptions may be granted by an appropriate committee of the division or department.

(b) All divisions should provide students with the opportunity within a reasonable time to review their examination paper, where feasible. A recovery fee should be set to cover administrative costs including photocopying.

(c) All divisions should provide, in addition to the customary re-reading of papers and the re-checking of marks, the opportunity for students to petition for the re-reading of their examination where feasible. A suit recovery fee should be set and returned where appropriate.

For further details, please refer to "Procedures for requesting special consideration, petitions, and appeals" (page 235).

11.7 Conflict of interest

Where the instructor or a student has a conflict of interest, or it is in a situation where a fair and objective assessment may not be possible, this should be disclosed to the chair or division head who shall take steps to ensure fairness and objectivity.

Examinations

Examinations are held at the end of both terms in each session. Students who make personal commitments during the examination period do so at their own risk. No special consideration will be given and no special arrangements made in the event of personal circumstances. Information regarding dates and times of examinations will not be given by telephone.

Students are responsible for reading the timetable carefully and appearing at the time specified. Students taking courses during the day may be required to write evening examinations, and students taking evening courses may be required to write day examinations.

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 5420A, 287-7540). Arrangements will normally be made for students to write both examinations on the same day, with a supervised break. Where the conflict involves a St. George Campus course, arrangements will normally be made for both examinations to be written at Scarborough 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 (those 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 Office of the Registrar no later than the last day of the examination period. Petitions must be accompanied by a medical certificate or other appropriate supporting evidence. Please refer to the information concerning petitions and medical certificates (page 235).

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 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 actual examinations at the scheduled time.

3 No persons 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 place on their desks. (Students registered in other Faculties or Colleges of the University shall bring their student cards.)

5 Bags and books are to be deposited in a basket designated by the invigilator and are not to be taken to the examination desk or table. Students may use only the books provided by the invigilator and place them, closed, on the floor under their chairs.

6 The invigilator has the authority to assign seats to candidates.

7 No material shall be brought into the examination room or used in an examination except those authorized by the Chief Presiding Officer or Examiner.

8 Candidates shall not communicate with one another in any manner whatever while the examinations are in progress.

9 Candidates bringing any unauthorized material into an examination room or who assist, or obtain assistance from other candidates or from an unauthorized source, are liable to be refused permission to write the remaining part of the examination or any subsequent examinations. Such candidates are also liable to the loss of academic credit for the course, to suspension, or to expulsion from the University.

10 Candidates shall not be permitted to leave the examination room except under supervision until at least half an hour after the examination has commenced.

11 Candidates shall not leave the examination room within the 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 in the answer books shall cease. The invigilator may refuse to accept the papers of candidates who fail to observe this requirement.

13 Examination books and other material issued for the examination shall not be removed from the examination room without the authority of the invigilator.

14 Smuggling is not permitted in the examination rooms.

Procedures for requesting special consideration, petitions, and appeals

Petitions for exceptions to the academic regulations

1 Students may request that an exception to an academic regulation be made in their case. Such a request takes the form of a petition to the Registrar. Each petition is reviewed by the Office of the Registrar, and the student is notified of the decision.

2 To enter a petition, the student prepares a written statement, stating clearly the special consideration requested, stating clearly the grounds upon which special consideration is requested, that is, the reason(s) why the student believes an exception to the rules is appropriate in this particular case, and appending documents to evidence special circumstances: medical certificates, etc.

3 Students who wish to submit medical certificates in support of their petitions must ask their physicians:
   - to verify that the student was examined at the time of the illness;
   - to state the degree of disability involved;
   - to indicate the duration of the disability caused by the illness; and
to indicate the physician's professional opinion as to whether the student should receive special consideration with this or her academic work on medical grounds.

4 Students are encouraged to seek advice from counsellors in 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 by instructors' deadlines, must (except as noted below) speak with their instructor as soon as possible to request special consideration.

Students who wish to appeal the decision of their instructor with respect to a request for special consideration must, as soon as possible, speak with or write to the Chair of the division offering the course.

2 Where students' medical problems or other extenuating circumstances occur towards the end of the term, and they 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 (shown in the "Academic Calendar" in the Student Record Calendar), students must submit a formal petition to the Sub-committee on Standing. The petition must be submitted as soon as possible and no later than the last day of the relevant examination period.

Final examinations

1 Students who, for reasons of illness or other 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 them from writing an examination, they are required to attempt the examination. If, after receipt of their final grade (AP) 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 during the next examination period. Students who expect to graduate at the end of a given session, special arrangements may be made for an immediate make-up examination. Students will be consulted that their performance may be affected by illness should visit a physician on the day of the examination to obtain both medical assistance and a medical certificate that may be submitted if a petition is to be necessary. Petitions of this nature should be entered as soon as possible, but no later than:

   Summer Session:
   - A & F courses: 31 July
   - B, H, S & Y courses: 30 September

   Winter Session:
   - A & F courses: 31 January
   - B, H, S, & Y courses: 30 January

Where students are allowed to rewrite final examinations, the amended grade will stand whether it is higher or lower than the original grade.

5 Special examinations in Scobart College courses are normally held in the next examination period:
   - Spring examinations are held in the August examination period.
   - Summer examinations are held in the Christmas examination period.
   - Christmas examinations are held in the Spring examination period.

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 Office of the Registrar a photocopy of their final examination. A copying fee is required at the time of the request.

2 request a recheck of the calculation through the Office of the Registrar 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 is changed, the amended grade will 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 Office of the Registrar, 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 an 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 another 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's announced grades for the course), may enter a formal petition to the Sub-committee on Standing. See above for information about the petition procedure. Petitions must be entered within six months of the final examination period and will be treated in the same way as requests for re-reading of a final examination (see below).

Final examinations

1 Students may request from the Office of the Registrar a photocopy of their final 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 review their examination. The Sub-committee will authorize a re-reading only where a student has articulated clear grounds for reconsideration of some part of the examination, addressing the result of the answer in relation to the mark given, or otherwise interesting the nature of the alleged misvaluation.
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 courses

Academic appeals
Students may appeal a decision of the Sub-committee on Standing, or the Sub-committee on Marks Review 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-President 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, for Appeals Committee, Office of the Governing Council Secretariat, Room 106, Sionni Hall, St. George Campus, telephone 978-8794.

University Ombudsperson
The Ombudsperson 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 ombudsperson has access to all relevant files and information, and to all appropriate University officials. The ombudsperson is independent of all administrative structures of the University, and is accountable only to the President and the Governing Council.

For information, advice, or assistance, contact the Office of the University Ombudsperson, University of Toronto, 165 College Street, Toronto, Ontario M5S 1A1 (Telephone 978-8474). Sexual Harassment Education, Counselling and Complaint Office, University of Toronto does not tolerate any form of sexual harassment and is actively endeavouring to provide an environment free of it. All forms of sexual harassment, from verbal abuse to 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 Officer 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 Office are available to all members of the University. All complaints and requests for information will be kept completely confidential unless the individuals involved approve otherwise. Members of the University at Scarborough Campus may arrange an appointment at Scarborough Campus with the Sexual Harassment Officer or go to the downtown Ontario office, whichever is more convenient. For an appointment, information, to arrange education or to file a complaint, contact the Sexual Harassment Education, Counselling and, Complaint Office, Office of the Governing Council Secretariat, Room 106, Sionni Hall, St. George Campus, telephone 978-8794.

Code of behaviour on academic matters
A. PREAMBLE

The code of the Code of Behaviour on Academic Matters is with the responsibilities of all parties to the integrity of the teaching-learning relationship. Honesty and fairness must inform this relationship, whose basic remains one of mutual respect for the aims of education and for those ethical principles which must characterize the pursuit and transmission of knowledge in the University.

What distinguishes the University from other centres of research is the central place which the relationship between teaching and learning holds. It is by virtue of this relationship that the University fulfills an essential part of its traditional mandate from society, and, instead, from history: to be an expression of, and by so doing to encourage, a habit of mind which is discriminating at the same time it remains courteous, which is at once equitable and audacious, valuing openness, honesty and courtesy before any private interests.

This mandate is more than a mere pious hope. It represents a condition necessary for free enquiry, which is the University’s life blood. In 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, through bound by respect, by a common passion for truth and by mutual responsibility to those principles and ideals that continue to characterize the University.

This Code is concerned, then, with the responsibilities of faculty members and students, not as they belong to administrative or professional or social groups, but as they co-operate in all phases of the teaching and learning relationship. Such co-operation is motivated when teacher or student forsakes respect for the other, or other offers involved in learning - in favour of self-interest, when truth becomes a matter of expediency. On behalf of teacher and student and in fulfillment of the above principles and ideals, the University has a responsibility to ensure that academic achievement is not obscured or undermined by cheating or misrepresentation, that the evaluative process meets the high standard of fairness and honesty, and that malvolent or even mistaken views are not allowed to threaten the educational process.

Three areas in which teacher and student necessarily share a common interest as well as common responsibilities.

B. OFFENCES

The University and its members have a responsibility to ensure that they will not encourage, condone or misrepresent or condone misrepresentation or unfairness not to 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, in as any dishonesty or unfairness in dealing with the work or record of a student.

B. I.

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 utter, circulate or make use of any such forged, altered or falsified document, whether the record be in print or electronic form;
   (b) to use or possess an unauthorized aid or aids or obtain unauthorized assistance in any academic examination or term test or in connection with any other form of academic work;
   (c) to impersonate another person at any academic examination or term test or in connection with any other form of academic work;
   (d) to represent as one's own any idea or expression of an idea or work of another in any academic examination or term test or in connection with any other form of academic work, i.e. to commit plagiarism; 
   (e) to submit for credit, without the knowledge and approval of the instructor to whom it is submitted, any academic work for which credit has previously been obtained or is being sought in another course or programme of study in the University or elsewhere;
   (f) to submit for credit any academic work containing a purloined statement of fact or reference to a source which has been concocted.

2. It shall be an offence for a faculty member intentionally:
   (a) to approve any of the previously described offences;
   (b) to evaluate an application for admission or transfer to a course or programme of study by other than real and published criteria;
   (c) to evaluate academic work by a student by reference to any criterion that does not relate to its merit, to the time within which it is to be submitted or to the manner in which it is to be performed.

3. It shall be an offence for a faculty member and student alike intentionally:
   (a) to forge or in any other way alter or falsify any academic record, or to utter, circulate or make use of any such forged, altered or falsified record, whether the record be in print or electronic form;
   (b) to cause by action, threat or otherwise in a classroom, laboraory or examination room a disturbance, which the instructor knows or ought reasonably to know, obstructs the teaching of a course or the holding of a test or examination.

4. The following are offences to the extent that they relate to the teaching and learning relationship. It shall be an offence for a faculty member and student alike intentionally:
   (a) to remove or copy or alter saved information such as books, films, data files or programs from a library, computer or other information storage, processing or retrieval system or its peripheral communications devices without proper authority or to misuse, emplace, misfile, install or use any unauthorized device, program, system or device 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;
   (b) to use in a substantial way any information storage, processor or retrieval facility such as a library, computer, telephone, network of telecommunications system, or facsimile or photocopying equipment, or similar equipment, for any other purpose than that for which privileges of use or access have been granted;
   (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. II. Parties to Offences

1. (a) Every member is a party to an offence under this Code who intentionally:
   (i) actually commits it;
   (ii) does or omits to do anything for the purpose of aiding or assisting another person to commit the offence;
   (iii) does or omits to do anything for the purpose of aiding or assisting any other person who, if that person were a member, would have committed the offence;
   (iv) sends, transmits, or otherwise conveys to another party to an offence;
   (v) sends, transmits, or otherwise conveys to another member to commit or be a party to an offence;
   (b) Every party to an offence under this Code is liable upon admission of the commission thereof, upon conviction, as the case may be, to the sanctions applicable to that offence.

2. Every member who has 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.

3. 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 suspension 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.(1) Divisional Procedures

Note: Where a student commits an offence, the faculty in which the student is registered shall take the lead in the matter. In the case of Scarsborough and Erindale colleges, the college is deemed to be the faculty.

1. No hearing within the meaning of Section 2 of the Statutory Powers Procedure Act is required for the purposes of, or in connection with, any of the discussions, meetings and determinations referred to in Section C.1.(1), 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 the faculty. Nothing the student says in such a discussion may...
be used or recoverable 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 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.1(b.1) 1.

5. When 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 a copy of the Code and subsequently afford the student an opportunity for discussion of the matter. In the case of the dean (Vice Principal and Associate Dean) being informed, the chair of the department and the instructor shall be invited by the dean (Vice Principal and Associate Dean) to be present at the meeting with the student. The dean (Vice Principal and Associate Dean) shall conduct the interview.

6. Before proceeding with the meeting, the dean (Vice Principal and Associate Dean) shall inform the student that he or she is entitled to seek advice, or to be accompanied by counsel at the meeting, before making, and is not obliged to make, any statement or admission, but shall warn him that he or she makes any statement of admission in the meeting, it may be used or recoverable in evidence against the student in the hearing of any charge with respect to the offence or alleged offence in question. The dean (Vice Principal and Associate Dean) shall advise the student of the further comment or discussion, of the sanction that may be imposed under Section C.1(b), and that the dean (Vice Principal and Associate Dean) is not obliged to impose a sanction but may instead request that the Provost lay a charge against the student. Where such advice and warning have been given, the statements and admissions, if any, made in such a meeting may be used or recovered in evidence against the student in any such hearing.

7. If the dean (Vice Principal and Associate Dean), on the advice of the department chair and the instructor, or if 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 withdrawal date, he or she shall be allowed to do so. Thereafter, the matter shall not be introduced into evidence as a Tribunal bearing for another offence.

8. If the student admits the alleged offence, the dean (Vice Principal and Associate Dean) or the department chair may either impose the sanction that he or she considers appropriate under Section C.1(b) or refer the matter to the dean (Vice Principal and Associate Dean) or Provost, as the case may be, and in either event shall inform the student in writing of the decision. 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 further consideration.

10. If the student does not admit the alleged offence, the dean (Vice Principal and Associate Dean) may, after consultation with the instructor and the department chair, request that the Provost lay a charge against the student. If the Provost agrees to lay a charge, the case shall then proceed to the Tribunal. A failure to carry out the procedures referred to in this Section, or any default 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, default 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.

11. No degree, diploma or certificate of the University shall be conferred or awarded, nor shall a student be allowed to withdraw from a course from the time of the alleged offence until the final disposition of the accusation. However, a student shall be permitted to use University facilities while a decision is pending, unless there are valid reasons for the dean (Vice Principal and Associate Dean) to bar him or her from a facility. A student upon whose a sanction has been imposed by the dean (Vice Principal and Associate Dean) or the department chair under Section C.1(b) or who has been convicted by the Tribunal shall not be allowed to withdraw from a course so as to avoid the sanction imposed.

12. A record of cases disposed of under Section C.1(a) and of the sanctions imposed shall be kept in the academic unit concerned and may be referred to by the dean (Vice Principal and Associate Dean) or the department chair under Section C.1(b) or who has been convicted by the Tribunal shall not be allowed to withdraw from a course so as to avoid the sanction imposed.

13. One or more of the following sanctions may be imposed by the dean (Vice Principal and Associate Dean) or the department chair under Section C.1(b) or who has been convicted by the Tribunal:

(a) a written reprimand;
(b) a written reprimand and, with the permission of the instructor, the reissuance of the piece of academic work, in respect of which the offence was committed, for evaluation. Such a sanction shall be imposed only for minor offences or where the student has committed no previous offence;
(c) a grade of zero or failure for the piece of academic work in respect of which the offence was committed;
Code of behaviour on academic matters

The full text of the code is available from the Office of the Registrar. Important parts of it from the point of view of the student are shown below:

1. Non-academic offences

It shall be an offence for any member of the University:
- to disrupt College activities by action, threat or otherwise;
- to enter or remain in any College building, facility, room or office with intent to damage, destroy or steal any property that is not their own;
- to destroy, deface or otherwise damage any property that is not their own;
- to assault another person, threaten any other person with bodily harm or with damage to such a person's property or, knowingly, and without just cause, to cause any other person to fear bodily harm or fear damage to his or her property;
- to create a condition which unnecessarily endangers or threatens the health, safety or well being of other persons or threatens the damage or destruction of property;
- to use a position of authority to attempt to force any other person into a sexual relationship, or to subject a person to unwanted sexual attention, or to punish a refusal to comply;
- to subject any other person to verbal or physical abuse or harassment or to discriminate against any other persons on the basis of race, creed, color, national origin, citizenship, religious or political affiliation or belief, sex, sexual orientation, marital status and/or family relationship and place of residence;
- to possess stolen College effects or, on College premises, any property stolen from any other member of the College community;
- to use College facility, equipment or service contrary to expressed limitations prescribed by the College or without just cause;
- to violate the parking or traffic regulations of the College;
- to use the residence Code of Behaviour;
- to bring a false charge against any member of the College community under this Code;
- to subject any person in the commission of an offence.
Part-time Studies

All students, whether part-time or full-time, are subject to the same admission standards, are governed by the same rules and regulations, and are required to satisfy the same degree requirements.

It is true, however, that students whose outside commitments prevent them from coming to the College during the day may find that they have less access to services in the University (although the Registrar's Office is open from 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 Counselling Services (287-7550). Counselling Services does not have regular evening hours but evening counselling appointments can be arranged. In addition, the Association of Part-time Undergraduate Students (APUS) serves as the voice of part-time students in the University and can be a source of help.

Admission to Scarborough College

The same admission standards are applied to both full-time and part-time students. More information on admission for mature students and application deadlines is in the Admissions section of this Calendar. Any questions of concern can be addressed by contacting the Assistant Registrar—Admissions at 287-7529.

Awards

Part-time students are considered for most awards and scholarships on the same basis as full-time students. Some special awards and bursaries for part-time students are available through APUS. For further information see the Awards section of this Calendar.

Academic Regulations and Degree Requirements

Part-time students are governed by the same regulations as any other student. Students are responsible for reading through the section of the Calendar dealing with Academic Regulations. When in doubt, students should contact the Office of the Registrar or Counselling Services for assistance in interpreting regulations and their applications in particular cases. We have noted below several regulations that
seem of particular relevance to part-time students. However, this list is by no means exhaustive. It must be emphasised 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 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 allowed, sometimes 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 in 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 on occasion justify an exception to the academic regulations. Requests for special treatment takes the form of a petition to Soochan College Sub-committee on Standing. Students who believe that such special consideration is necessary should contact a counsellor in Counselling Services at the earliest possible time to discuss the appropriate form of action. Students are made aware that special consideration may not 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 Programmes and since evening course offerings are limited, evening students should plan their course selection very carefully bearing in mind pre- and co-requisites and the fact that certain courses may not be available in a particular session.

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 selections. The same timetable is available in the Registrar’s Office normally in February.

Anthropology Specialist and Major Programme

Normally, one of the following core requirements is offered on a rotational basis [ANTH15Y, ANTH25, ANTH25A] every year during the evening.

Economics Major Programme

Each of the four courses specifically required for the Economics Major [EC205Y, ECON205, ECON205S, ECON205T] is offered in the evening at least once each year. ECON205Y and ECON205 are offered in both summer and winter evening sessions each year. ECON205T and ECON205S are offered in each winter evening session, and one is usually offered in each summer session.

Each evening session, and in some summer sessions at least one other course at the B, C, or D level is offered.

English Specialist and Major Programme

English courses are, as far as possible, cyclic as follows:
ENGL15Y - every two years;
ENGL25Y - every two years;
ENGL35Y - every four years;
ENGL45Y - every four years.

Pre-1800 courses - at least one every two years.

Post-1800 courses - at least one every year.

D-level courses - usually 3 half-courses every year.

History Specialist and Major Programme

HIST10Y offered in the evening normally every other year.

Upper level History courses - at least two offered every year.

Philosophy Specialist and Major Programme

PHIL10Y offered in the evening every other year.

PHIL205Y, PHIL205S, PHIL205T, PHIL205Y, - two of these courses are usually offered every year.

Political Science Major Programme

POLAS0Y offered every second year.

Core area courses [BIS105, BIS205, BIS205T, BIS205Y, BIS205Y] offered every three or four years.

Others, including C & D level courses, occasionally.

Psychology Specialist and Major Programme

The following courses are normally offered annually in the evening and/or in the summer: PSY105Y, PSY205, and PSY305T, all of which are required for both programmes. As well, all courses in each of the content areas and all D-level courses appear in the evening or summer on approximately a 3-year cycle. Part-time students are also encouraged to check the offerings on the St. George campus, to which they have access and which they will find are not identical to those at Scarborough in a given year.

Sociology Specialist and Major Programme

SOC105Y is offered in the evening every year.

For part-time students majoring in Sociology, the other required courses are offered in the following sequence in winter evening sessions:

SOC105Y History of Social Thought
SOC105Y Social Statistics
SOC105Y Methods in Social Research
SOC105Y Contemporary Social Theory
SOC105S Advanced Seminar in Sociological Theory
SOC105S Advanced Seminar in Research Methods

For both Major and Specialist Programmes, the remaining courses required to fulfil the programme requirements are offered in winter and summer evening sessions.
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Music 287-7191
Management & Economics Division Secretary 287-7331
Chair’s Office 287-7341
Associate Chair 287-7348
Physical Sciences Division R-Wing Office 287-7200
S-Wing Office 287-7195
Chair’s Office 287-7197
Physical Plant Services (Parking enquiries) 287-7575
Principal and Dean 287-7025
Pub 287-7616
Recreation Centre Counter (reservations, etc.) 287-7099
Office (athletic programme information) 287-7090
Registrar’s Office Enquiries 287-7517
Admissions/Scholarships 287-7529
Residences Office 287-7366
Dean of Students in Residence 287-7150
Social Sciences Division Receptionist 287-7282
Chair’s Office 287-7287
Student Awards (OSAP) 978-7950
Student Councils Scarborough College Student Council (S.C.C.) 287-7047
U of T SAC Desk 287-7615
Vice-Principal and Associate Dean 287-7566
Writing Centre 287-7562
APUS 978-3593

- S -
  Scarborough Campus University of Toronto 1265 Malden Trail
  Scarborough, Ontario, Canada M1C 1A4

- T -
  Telephone Directory: frequently called numbers
  Athletic Association (S.C.A.A.) 287-7096
  Bookstore 287-7035
  Cafeteria 287-7057
  Campus Police (including Lost and Found) 287-7398
  Career Counselling & Placement 287-7559
  Cashier’s Office 287-7014
  Computer Centre 287-7389
  Co-operative Programmes 287-7110
  Counselling Services 287-7550
  Development & Public Relations Office Events enquiries 287-7080
  Drama 287-7175
  Fees Department 978-2142
  Health Service 287-7065
  High School Liaison (Tours) 287-7546
  Humanities Division Classics, History, Philosophy 287-7117
  Fine Art, English, Humanities, Linguistics Languages 287-7119
  Chair’s Office 287-7127
  International Student Centre 978-2564
  Library Inquiry, Circulation Desk 287-7482
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"Alter Egos" 2.5m × 2m
by Michelle Binnie, a fourth year student in the Fine Art Studio Programme at Scarborough College.

The text on the cover of the book reads:

“When I graduate I want to do something hard with my life.”

Elysa Martinez

... has romantic thoughts that inevitably cause her much undue pain. She calls herself Misery and asks you for your understanding and compassion.