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
Important Information

Student responsibility
Students are responsible for making themselves familiar with the information in this Calendar, particularly the section of the Calendar dealing with Academic Regulations. Counselors in the Student Services Office would be pleased to assist students in interpreting these regulations, in explaining their application in particular cases, and (where appropriate) in assisting students who encounter special difficulties to request special consideration with respect to the regulations.

Curriculum changes
The Programmes in this Calendar, and the courses and their descriptions, are accurate at the time of printing. However, the College reserves the right to withdraw Programmes or amend their requirements or to withdraw courses or amend their descriptions.

Enrolment limits
Scarborough 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.

Course selection and registration
Key to the course descriptions
Students are urged to read carefully pages 38 and 39 of this Calendar before reading the course descriptions. These pages contain important information about the designation and numbering of courses; prerequisites, corequisites and exclusions; and about supervised research, supervised research and independent study courses.

Prerequisites and corequisites
Prerequisites and corequisites may be waived only with the specific permission of the instructor. Students who register in courses without their prerequisites or corequisites, and without the permission of the instructor, may be withdrawn from these courses after the beginning of classes.

Prerequisite: permission of instructor
Where the prerequisite of a course is permission of its instructor, students who register in the course without permission may be withdrawn after the beginning of classes. Students who propose to register in such courses are urged to obtain the permission of the instructor before the end of classes in April of the preceding year.

Supervised reading or research courses
Registration in supervised research or reading courses, thesis courses, etc., requires the written consent of the instructor, using the form printed on page 257 of this Calendar. Students who propose to register in such courses are urged to obtain the permission of the instructor before the end of classes in April of the preceding year.

St. George Campus or Erindale Campus courses
Students who propose to register in courses on the St. George or Erindale campus should consult page 24 of this Calendar.

Registration information and fees schedule
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 1982 Summer Session or the 1982-83 Winter Session should pick up registration information from the Registrar’s Office in March or April. New students and students reactivating their enrolment after a year away will be mailed their registration material upon request.
Winter Session
Students who were registered at the College in the previous Winter Session will receive registration material in the mail in June, along with their Statement of Results. Returning students who were not enrolled in the previous winter or summer session should get in touch with the Office of the Registrar to request reactivation of their enrolment; they will then be mailed registration materials. New students will receive registration information with their offers of admission.

Fees
Fees for 1983-84 will be announced in the Registration Instructions. As a guideline, the following fees were charged for 1982-83: fees are expected to increase by about 5% for 1983-84. Full-time students taking the usual load of five courses incurred fees charges of about $1150 (Canadian citizens or permanent residents) or about $2800 (new visa students). These amounts included tuition fees and "incidentals" fees for students council, athletics, etc. Part-time students taking one full course incurred fees costs of about $230 (for Canadian citizens or permanent residents) or approximately $560 (for new visa students).

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**Academic Calendar/Summer Session 1983**

April 1
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).

May 13
Last day to register for Y, A, F and H courses.

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 the above dates where possible, the University cannot guarantee that a decision will be made on such applications before the commencement of classes.

May 16
Classes for Y, A, F and H courses begin.

May 20
Last day to add Y, A, F or H courses. Last day this term to transfer into a new Specialist, Major or College Programme.

May 23
Victoria Day, University closed.

June 10
Last day to withdraw from A or F courses.

June 24
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.

June 27
Final examinations may be held in A and F courses on the St. George Campus. H and Y courses continue to meet.

June 30
Last day of classes in A and F courses atScarborough 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.

July 1
Last day to register for B and S courses.

July 4
Dominion/Canada Day. University closed.

July 8
Last day to add B or S courses. Last day this term to transfer into a new Specialist, Major or College Programme.

July 15
Last day to request conferment of degree at the Fall Convocation.

July 22
Last day to withdraw from Y or H courses.

July 29
Last day to withdraw from B or S courses.

August 12
Civic holiday. University closed.

August 15
Last day of classes for Y, B, H and S courses on the St. George Campus and in the Scarborough Language Institute.

August 19
Final examinations in Y, B, H and S courses on the St. George and Erindale Campuses.

August 19
Last day of classes in Scarborough College courses. Last day for submission of term assignments. Final examinations, if required, will be held in a class period of the last week.

**Academic Calendar/Winter Session 1983-84**

1983

June 30
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.

September 5
Labour Day. University closed.

September 12
Classes for Y, A, F and H courses begin.

September 23
Last day to add Y, A, F or H courses. Last day this term to transfer into a new Specialist, Major or College Programme.

October 10
Thanksgiving Day. University closed.

November 4
Last day to withdraw from F or A courses.

November 14
Christmas Examination Schedule published.

November 15
Last day for new students to apply for admission to the University for Winter Session courses beginning in January.

December 9
Last day of classes in the first term. Last day for submission of term assignments in F and A courses.

December 12
Term test and final examination period.

December 23

1984

January 2
Classes for B and S courses begin.

January 13
Last day to add B or S courses. Last day this term to transfer into a new Specialist, Major or College Programme.

February 10
Last day to withdraw from Y or H courses.

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

February 13
Reading Week - all classes cancelled.

February 24
Last day to withdraw from B or S courses.

March 12
Annual Examination Schedule published.

April 6
Last day of classes; no tests or examinations may be held until the beginning of the examination period.

April 16
Final examination period.

May 11
Good Friday. University closed.

April 20
Spring Convocations begin.

June 11
### Officers of the University of Toronto 1983-1984

#### Officers of Scarborough College

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principal</td>
<td>J.E. Foley</td>
<td>B.A., PH.D.</td>
</tr>
<tr>
<td>Associate Dean</td>
<td>M. Krashinsky</td>
<td>B.B., M.PHIL., PH.D.</td>
</tr>
<tr>
<td>Chairman, Division of Humanities</td>
<td>E.W. Dowlor</td>
<td>M.A., PH.D.</td>
</tr>
<tr>
<td>Chairman, Division of Life Science</td>
<td>J.E. Grusec</td>
<td>B.A., M.PHIL.</td>
</tr>
<tr>
<td>Chairman, Division of Physical Sciences</td>
<td>R.C. Roeder</td>
<td>B.S.C., M.PHIL.</td>
</tr>
<tr>
<td>Chairman, Division of Social Sciences</td>
<td>R. Bryan</td>
<td>B.A., M.PHIL.</td>
</tr>
<tr>
<td>Registrar</td>
<td>G.E.L. Curri</td>
<td>B.A., M.PHIL.</td>
</tr>
<tr>
<td>Dean of Students in Residence</td>
<td>C. MacLeod</td>
<td>B.A., M.PHIL.</td>
</tr>
<tr>
<td>Librarian</td>
<td>J.L. Bell</td>
<td>B.A., M.PHIL.</td>
</tr>
</tbody>
</table>

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### Faculty of Scarborough College

#### Division of Humanities

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classics</td>
<td></td>
</tr>
<tr>
<td>J.R. Warden</td>
<td>M.A. (Cambridge), Professor</td>
</tr>
<tr>
<td>A. Boddington</td>
<td>B.A. (Oxon), Associate Professor</td>
</tr>
<tr>
<td>J.H. Corbett</td>
<td>M.A. (Toronto), Associate Professor</td>
</tr>
<tr>
<td>M.E. Irwin</td>
<td>B.A. (Oxon), Associate Professor</td>
</tr>
<tr>
<td>I.R. McDonald</td>
<td>B.A. (Oxon), Associate Professor</td>
</tr>
<tr>
<td>G. Papadatos</td>
<td>B.A. (Athens), Tutor</td>
</tr>
<tr>
<td>Drama</td>
<td></td>
</tr>
<tr>
<td>M.O. Schonberg</td>
<td>M.A. (London), Associate Professor</td>
</tr>
<tr>
<td>L.L. Browns</td>
<td>M.A. (Toronto), Tutor</td>
</tr>
<tr>
<td>English</td>
<td></td>
</tr>
<tr>
<td>W.J. Howard</td>
<td>M.A., S.T.B. (Toronto), Ph.D. (Leeds), Professor</td>
</tr>
<tr>
<td>J.M.R. Margetson</td>
<td>M.A., Ph.D. (Toronto), Professor</td>
</tr>
<tr>
<td>R.M. Brown</td>
<td>M.A., Ph.D. (New York), Associate Professor</td>
</tr>
<tr>
<td>M.C. Oddy-Keare</td>
<td>M.A., Ph.D. (Toronto), Associate Professor</td>
</tr>
<tr>
<td>H. Jackson</td>
<td>M.A., Ph.D. (Toronto), Associate Professor</td>
</tr>
<tr>
<td>J. Kay</td>
<td>M.A. (Oxford), Ph.D. (Oxford), Associate Professor</td>
</tr>
<tr>
<td>S.M. Namjoshi</td>
<td>M.A. (Queen's), M.S. (Missouri), Ph.D. (McGill), Associate Professor</td>
</tr>
<tr>
<td>A.J.G. Paternall</td>
<td>M.A. (McGill), Ph.D. (Birmingham), Associate Professor</td>
</tr>
<tr>
<td>M.S. Tait</td>
<td>M.A., Ph.D. (Toronto), Associate Professor</td>
</tr>
<tr>
<td>A.C. Thomas</td>
<td>M.A., Ph.D. (Toronto), Associate Professor</td>
</tr>
<tr>
<td>E.P. Vickers</td>
<td>M.A. (Toronto), Associate Professor</td>
</tr>
<tr>
<td>K. Theil</td>
<td>M.A., Ph.D. (Yale), Assistant Professor</td>
</tr>
<tr>
<td>Fine Art</td>
<td></td>
</tr>
<tr>
<td>G. Scarfe (2F)</td>
<td>M.A., Ph.D. (Toronto), Professor</td>
</tr>
<tr>
<td>M. Gerwens</td>
<td>M.A. (Victoria), Ph.D. (Toronto), Associate Professor</td>
</tr>
<tr>
<td>M. Shaw</td>
<td>M.A., Ph.D. (Bryn Mawr), Associate Professor</td>
</tr>
<tr>
<td>R. Siebeloff</td>
<td>M.A., Ph.D. (Toronto), Associate Professor</td>
</tr>
<tr>
<td>L. Carney</td>
<td>M.A. (Columbia), Assistant Professor</td>
</tr>
<tr>
<td>D. Hoffman</td>
<td>B.F.A. (Kennesaw State University), Senior Tutor</td>
</tr>
<tr>
<td>J. Hoogstraten</td>
<td>B.F.A. (Montreal), Senior Tutor</td>
</tr>
<tr>
<td>A. Hiatt</td>
<td>B.F.A. (Chicago), Tutor</td>
</tr>
</tbody>
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### French

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
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<tbody>
<tr>
<td>C.B. Bertrand-Jennings</td>
<td>M.A. (Paris), Ph.D. (Wayne State), Professor</td>
</tr>
<tr>
<td>G.F.R. Tremblay</td>
<td>L.L.E. (McGill), Ph.D. (Yale), Professor</td>
</tr>
<tr>
<td>W.J. Beaubien</td>
<td>M.A. (Montreal), Ph.D. (Harvard), Associate Professor</td>
</tr>
<tr>
<td>J.A. Curtis</td>
<td>M.A., M.PHIL. (Toronto), Associate Professor</td>
</tr>
<tr>
<td>L.F. Doucette</td>
<td>B.A. (London), Ph.D. (Brown), Associate Professor</td>
</tr>
<tr>
<td>W.J. Kirkness</td>
<td>M.A. (Auckland), Ph.D. (Belgium), Associate Professor</td>
</tr>
<tr>
<td>L.B. Mignault</td>
<td>B.A. (Toronto), Ph.D. (Colorado), Associate Professor</td>
</tr>
<tr>
<td>S. Mittler</td>
<td>M.A. (Toronto), Ph.D. (Strasbourg), Associate Professor</td>
</tr>
<tr>
<td>P.C. Mole</td>
<td>M.A., B.L.S. (Toronto), Associate Professor</td>
</tr>
<tr>
<td>C. Evans</td>
<td>M.A. (Rochester), Ph.D. (Toronto), Junior Tutor</td>
</tr>
<tr>
<td>F. Mugnier-Mantfredi</td>
<td>M.A. (Pavia), Senior Tutor</td>
</tr>
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### German

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
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<tbody>
<tr>
<td>H. Ohlendorf</td>
<td>M.A., Ph.D. (Stanford), Associate Professor</td>
</tr>
<tr>
<td>H. Wittmann</td>
<td>M.A., Ph.D. (Mass.), Associate Professor</td>
</tr>
<tr>
<td>U. Sherman</td>
<td>M.A., Ph.D. (Penn.), Senior Tutor</td>
</tr>
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### History

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<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>M. Eksteins</td>
<td>B.A. (Toronto), B.Phil. (Oxford), Professor</td>
</tr>
<tr>
<td>J. S. M. (Toronto), D.D. (Queen's College, Montreal), Professor</td>
<td></td>
</tr>
<tr>
<td>W.M. Dick</td>
<td>M.A. (Oregon), Ph.D. (Toronto), Associate Professor</td>
</tr>
<tr>
<td>E.W. Dowler</td>
<td>M.A. (Harvard), Ph.D. (London School of Economics), Associate Professor</td>
</tr>
<tr>
<td>M. Greaves</td>
<td>M.A. (York), Ph.D. (Toronto), Associate Professor</td>
</tr>
<tr>
<td>J.P. B. Kenyon</td>
<td>M.A., Ph.D. (Toronto), Associate Professor</td>
</tr>
<tr>
<td>J.L. Pearl</td>
<td>M.A. (Northwestern), Associate Professor</td>
</tr>
<tr>
<td>I.R. Robertson</td>
<td>M.A. (McGill), Ph.D. (Toronto), Associate Professor</td>
</tr>
<tr>
<td>A.N. Shear</td>
<td>M.A. (York), Associate Professor</td>
</tr>
<tr>
<td>L.J. Alray</td>
<td>M.A. (McMaster), B.Phil., Ph.D. (Yale), Assistant Professor</td>
</tr>
</tbody>
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### Humanities

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>G.P. Richardson</td>
<td>B.A., B.D. (Toronto), Ph.D. (Cambridge), Professor</td>
</tr>
</tbody>
</table>

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### Italian

<table>
<thead>
<tr>
<th>Name</th>
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</thead>
<tbody>
<tr>
<td>A. Franceschetti</td>
<td>Dott. in Lett. (Padua), Ph.D. (Columbia), Professor</td>
</tr>
<tr>
<td>D. McAlister</td>
<td>A.B. (St. Peter's, Milan), Ph.D. (New York), Associate Professor</td>
</tr>
<tr>
<td>S. Mittler</td>
<td>M.A. (Toronto), Ph.D. (Strasbourg), Associate Professor</td>
</tr>
</tbody>
</table>
DIVISION OF LIFE SCIENCES

Linguistics
R.I. Binnick, M.A., Ph.D. (Chicago), Professor
D.M. James, M.A., Ph.D. (Michigan), Associate Professor
S. Whalen, Ph.D. (Toronto), Associate Professor
J.D. Woods, B.A. (Bowdoin Coll.), Ph.D. (Mass.), Associate Professor

Music
T.J. McGee, M.A. (Connecticut), Ph.D. (Pittsburgh), Associate Professor
J. Mayo, G.T.C.L. (Trinity Coll., London) M.A., Ph.D. (Toronto), Assistant Professor

Philosophy
W. Newton-Smith, M.A. (Corin), D.Phil. (Oxford), Visiting Professor
D. Savan, B.A. (Harvard), Professor
J.H. Sibley, M.A. (Harvard), Ph.D. (Chicago), Professor
A. Gombrich, M.A. (Cambridge), Ph.D. (Oxford), Associate Professor
P.W. Goode, M.A., Ph.D. (Toronto), Associate Professor
W.C. Graham, M.A. (Toronto), Associate Professor
G.P. Nage, B.A., M.A., Ph.D. (McGill), Ph.D. (Cambridge), Associate Professor
R.P. Thompson, M.A. (Toronto), Assistant Professor

Russian
C.V. Pomorareff, M.A., Ph.D. (Toronto), Associate Professor
S. Whalen, M.A., Ph.D. (Toronto), Associate Professor

Spanish
P.R. Leon, M.A. (Cornell), Professor
R.J. Barta, M.A. (Princeton), Associate Professor
R. Skyrme, M.A. (Michigan), M.Litt. (Bristol), Ph.D. (Michigan), Associate Professor
K. Godde, B.A. (McGill), M.A. (Y.U.), Ph.D. (Toronto), Tutor

Biology
F.A. Urquhart, B.A., M.A., Ph.D. (Toronto), Professor Emeritus
I.R. Brown, B.Sc. (Carleton), Ph.D. (York), Professor
C.K. Govind, B.Sc. (Trinidad), M.Sc. (Newcastle), Ph.D. (Manchester), Professor
C. Nalewko (Sparrin), B.Sc., Ph.D. (Dublin), Assistant Professor
J.C. Ritchie, B.Sc. (Aberdeen), Ph.D. (Sheffield), D.Sc. (Aberdeen), Professor
A.H. Weatherley, B.Sc. (Sydney), M.Sc., Ph.D. (Oxford), Assistant Professor
G.R. Williams, B.Sc., Ph.D. (Sheffield), F.R.S.C., Professor
J.H. Young, B.A. (Victoria), M.Sc. (Toronto), Ph.D. (Western Ontario), Professor
R. Boonstra, B.Sc. (Ottawa), Ph.D. (McGill), Associate Professor
I.M. Campbell, B.Sc. (London), M.A., Ph.D. (Toronto), Associate Professor
R.E. Toller, B.Sc., Ph.D. (Lancaster), Ph.D. (Cambridge), Associate Professor
M.F. Filota, B.Sc. (St. Peter's), M.S. (London), Ph.D. (London), Professor
J.W. Gurd, B.A., M.A., Ph.D. (McGill), Associate Professor
G.F. James, B.Sc., M.Sc. (Waterloo), Ph.D. (Toronto), Associate Professor
D.D. Williams, B.Sc., M.A., M.Sc. (Victoria), Ph.D. (Waterloo), Assistant Professor
J. Silver, B.Sc., Ph.D. (Carleton), Associate Professor
C. Pickert, B.Sc., M.A., Ph.D. (Toronto), Senior Tutor
C. Mau, B.Sc., Ph.D. (McGill), Lecturer, Instructor

Psychology
G.S. Biederman, B.Sc. (CUNY), Ph.D. (CUPY), Professor
K.K. Dion, B.D. (Washington), Ph.D. (Boston), Professor
J.E. Foley, B.A., Ph.D. (Ottawa), Professor
B. Forrin, B.A. (Toronto), M.A., Ph.D. (Toronto), Professor
J.D. Paulik, B.A. (CUNY), B.A. (McGill), Ph.D. (Boston), Professor
M.C. Smith, B.A., M.A., Ph.D. (Oxford), Professor
J. Bassi, B.A. (McGill), Ph.D. (Oxford), Associate Professor
G.C. Cupchik, B.A. (Beihai), Ph.D. (Cambridge), Associate Professor
J.M. Kennedy, B.Sc., M.Sc. (Belfast), Ph.D. (Oxford), Associate Professor
A. Kukla, B.E., M.A., Ph.D. (Chicago), Associate Professor
N.W. Milgrim, B.A. (Cal.), M.A., Ph.D. (Chicago), Associate Professor
T.L. Pettit, B.S., M.A. (Louisiana), Ph.D. (Florida), Associate Professor
D.L. Cliffe, B.A. (Western), M.A., Ph.D. (Missouri), Assistant Professor
C. MacLeod, B.A. (McGill), Ph.D. (Washington), Assistant Professor
G.A.J. Heighington, B.A. (Toronto), Senior Tutor
J. Trotman, B.Sc. (Toronto), M.A., Ph.D. (Oxford), Tutor
R. Goldenberg, B.A. (Toronto), M.Ed. (Oxford), Tutor

Astronomy
R.C. Hooger, B.Sc., M.Sc. (McMaster), Ph.D. (Illinois), Professor
P.P. Knorrkh, B.Sc. (York), M.Sc. (Queens), Ph.D. (Manchester), Professor
P.G. Murray, B.Sc. (Toronto), Ph.D. (Cambridge), Professor
C. Dyer, B.Sc., M.Sc. (Toronto), Ph.D. (Toronto), NSERC UNIVERSITY RESEARCH FELLOW
M.J. Input, B.A., M.Sc. (York), M.A. (Toronto), Ph.D. (Texas), NSERC UNIVERSITY RESEARCH FELLOW

Chemistry
J.E. Quillner, B.A., Ph.D. (Cambridge), FRSC, Professor
A.J. Kresse, B.A. (Cornell), Ph.D. (Illinois), Professor
T.T. Tidwell, B.S. (Florida State), Ph.D. (Oxford), Professor
P.W. Brumer, B.Sc. (Brooklyn), Ph.D. (Harvard), Associate Professor
R.A. McClelland, B.Sc. (Toronto), Associate Professor
A. Walker, B.Sc. (Oxford), Ph.D. (Oxford), Associate Professor
R. Morris, B.Sc. (Waterloo), Ph.D. (U.C.), Associate Professor
K. Henderson, B.Sc. (Toronto), Senior Tutor
J. Poller, B.Sc. (Birmingham), M.Sc. (Waterloo), Senior Tutor
A. Verner, M.Sc. (Toronto), Senior Tutor

Computer Science
W.H. Enright, B.Sc. (Oxford), Ph.D. (Cambridge), M.C. (Cambridge), Professors
C.R. Powell, B.Sc. (McGill), M.Sc. (Chicago), Associate Professor
A. Mandelzon, B.S., M.S., Ph.D., (Princeton), Assistant Professor
J. von zur Gathen, Ph.D. (Darmstadt), Assistant Professor
M. Hall, B.Sc. (Auckland), Senior Tutor

Geology
W. Tovey, B.A., M.Sc., Ph.D. (Toronto), Professor
J.A. Westgate, B.Sc. (Reading), Ph.D. (Oxford), Professor
K.W.F. Howard, B.Sc., M.Sc., Ph.D. (Birmingham), Assistant Professor
N. Eyles, B.A. (Leicester), M.A. (NUI, Dublin), Ph.D. (EastAnglia), NSERC UNIVERSITY RESEARCH FELLOW

Mathematics
E.W. Ellers, Ph.D. (Johannesburg), Professor
J. Friedlander, B.Sc. (Toronto), M.A. (Toronto), Ph.D. (Penn State), Professor
E. Mendelson, B.Sc., M.Sc. (University of Toronto), Ph.D. (McGill), Professor
R.W. Sharpie, M.Sc. (Toronto), Ph.D. (Yale), Professor
J.R. Vanstone, M.A., Ph.D. Professor
T. Calabash, M.Sc., Ph.D. (Toronto), Associate Professor
M.J. Evans, B.Sc. (Western Ontario), M.Sc., Ph.D. (Toronto), Associate Professor
P. Keast, M.Sc. (Edinburgh), Ph.D. (St. Andrews), Associate Professor
P.J. Leahy, Ph.D. (Toronto), Associate Professor
J.B. Wilker, B.Sc. (Toronto), M.A. (British Columbia), Ph.D. (Toronto), Associate Professor
D. Hall, B.Sc. (Toronto), Senior Tutor
E. Moore, M.A. (Memorial), Ph.D. (Toronto), Senior Tutor
P. Fleek, M.A., Ph.D. (Western Ontario), Senior Tutor
S. Chowla, B.A. (Delhi), M.Sc., Ph.D. (Cambridge), Senior Tutor
D. Shum, Ph.D. (Dalhousie), Tutor

Physics
A. Griffin, M.Sc. (Birmingham), Ph.D. (Cornell), Professor
J.D. King, B.A. (Toronto), Ph.D. (Stanford), Professor
M.J. Lee, Ph.D. (Cambridge), Professor
P.J. O'Donnell, B.Sc., Ph.D. (Glasgow), Professor
J.M. Poir, B.A., M.Sc. (Toronto), Ph.D. (Carnegie), Professor
M.B. Walker, B.E. (McGill), Ph.D. (Oxford), Professor
A.E. Jacobs, B.A., B.A. (Toronto), M.Sc. (Waterloo), Ph.D. (Illinois), Associate Professor
S. Shlomo, M.Sc., Ph.D. (Oxford), Tutor

Admissions and Awards

The following is a brief description of the admission policies and procedures of the University of Toronto. Full information may be obtained from:

The Office of Admissions
University of Toronto
315 Bloor Street West
Toronto, Ontario, MSS 1A3
416-978-2190

Bases of admission
Ontario Grade 13

Admission to the College may be offered to students in an Ontario secondary school who have demonstrated good academic standing, and who meet the following requirements:

Grade 13 academic subjects have been arranged into the following groups for the purposes of admission:

Group A: English/English/English as a second language (see English facility requirement page 12)

Group B: Languages other than English

Group C: Mathematics

Group D: Sciences

Group E: Other Humanities and Social Sciences

Group F: Other subjects - Accounting

Family Studies

Law

Multidisciplinary Studies

Other Arts Studies

Physical and Health Education

Provided the regulations concerning Groups A through F are met, a Grade 13 student may present one credit from Group F for admission purposes. Effective with the admission cycle for 1985, these courses will not be accepted.

Regulations concerning Groups A through E:

The applicant will be expected to present at least six Grade 13 credits as follows:

1. at least one credit from Group A;

2. additional Grade 13 credits chosen from at least two of Groups B through E, and including at least one credit in either Group B or Group C.

Students wishing to qualify under Group C must present at least one of Algebra or Calculus or Relations and Functions.
Applicants may not present more than:
a three credits in Mathematics
b two credits in any other subject
The following will not be accepted:
Data Processing
Marketing and Merchandising
Other Business Studies
Secretarial Practice
Technological Studies
NOTE: Applicants who have matriculated prior to 1985 are not required to meet the subject distribution outlined above.

Students should choose Grade 13 subjects which will fulfill the prerequisites for university courses they intend to take. Such prerequisites are listed after the description of each course later in the calendar.

Other Canadian provinces
Alberta, Manitoba, Nova Scotia, Saskatchewan - Grade 12
British Columbia - before 1993 - Grade 13 or 1st year University of British Columbia - 1993 to present - Grade 12
New Brunswick - before 1970 - Grade 13 or 1st year University of New Brunswick - 1970 to present - Grade 12
Newfoundland - 1st year Memorial University Prince Edward Island - 1st year University of Prince Edward Island Quebec - 12 academic C.E.G.E.P. courses

Other Canadian universities
Students who have completed work at other universities may be considered for admission with advanced standing credit. Credit is granted only for work which is considered appropriate for inclusion in an Arts and Science programme at the University of Toronto.

Other countries
Students who would like to apply for admission on the basis of work completed in other countries should write to the Office of Admissions, outlining their academic qualifications.

Non-matriculants
Applicants who do not hold the published admission requirements may be considered for admission, where the applicant:
1 is 21 years of age, and
2 has been resident in Ontario for at least one year as a Canadian citizen or permanent resident, and
3 achieves high standing in one pre-university course.

"Pre-university courses are offered by Woldemworth College at the University of Toronto in English. History (available at the Scarborough College campus) and (on the St. George campus) Canadian Studies, Chemistry and Mathematics. These courses generally require attendance at two evening classes per week for a winter or summer session. Successful completion does not ensure admission in all cases. Hence, students must consult with the Office of Admissions before enrolling to ensure that completion of a pre-university course will make the applicant eligible for admission consideration.

Senior Citizens
The University admits Canadian citizens and permanent residents age 65, by the first day of term, into Arts and Science courses as Special Students. Tuition fees and normal academic requirements are waived.

English facility requirement
All applicants for admission to Scarborough College whose first language is not English and who have studied in an English language school system for four years or less must pass a recognized test of facility in English, i.e., the University of Michigan English Language Test, TOEFL administered by the Educational Testing Service, or the Certificate of Proficiency in English issued by the University of Cambridge, whether or not they complete a Grade 13 English course.

If Grade 13 English is not completed, the applicant is expected to present six Grade 13 credits, distributed over at least three subject groups from B.E. in addition to passing the test.

Application procedures
Current Ontario Grade 13 students
Students currently enrolled in an Ontario secondary school should submit applications through their school guidance or student services office.

All applicants other than current Ontario Grade 13 students
All applicants, other than current Ontario Grade 13 students, should request application forms from the Office of Admissions, giving full details of their educational background and standing.

Application dates
Students are strongly advised to submit application forms as soon as possible and before the following dates:
Admission to the Summer Session Term I (beginning in May) - April 1
Admission to the Summer Session Term II (beginning in July) - May 15
Admission to the Winter Session Term I (beginning in Sept.) - June 30
Admission to the Winter Session Term III (beginning in Jan.) - November 15
Applications will be accepted after the above dates to the maximum extent possible. However, applications received by the above dates will receive priority consideration

Awards

Admission awards
Plumptre Admission Scholarship
Awarded to the student who achieves the highest standing in secondary school is considered to be the most outstanding. The scholarship is awarded in memory of Professor A. F. W. F. Plumptre, a former principal of Scarborough College.

Frederick A. Urquhart Admission Scholarships
Eight scholarships are awarded to students on the basis of exceptional academic achievement in Grade 13.

University of Toronto, Scarborough College Admission Scholarships
A substantial number of admission scholarships are awarded each year on the basis of excellent academic standing as demonstrated by Grade 13 mark, Grade 12 marks and other information submitted by the secondary schools. To apply, Grade 13 students should complete an application form available in all Ontario secondary schools in early spring. Successful applicants will be notified at the time they receive an offer of admission to the University.

Scarsborough College Alumni Admission Award
Awarded to a graduate of a borough of Scarborough high school (public or separate) who has provided evidence of valuable community service and demonstrated high academic standing. Applications are available in Scarborough high schools.

In-course awards
The Hudson's Bay Company Scholarship
Awarded to the student who has demonstrated outstanding academic achievement at the end of third year. The scholarship alternates between students in the Humanities/Social Sciences and Life Sciences/Physical Sciences. All appropriate students with excellent academic standing are considered; no application is required.

B. 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 academic achievement at the completion of each year of study in the Humanities, Sciences or Social Sciences.

The All Tayeb Scholarship
Awarded to a student who demonstrates excellent scholarship in one area of study. The recipient must be a member of the faculty of Geography. Suitable candidates are nominated by members of the Scarborough College faculty. No application is required.

Scarbrough College General In-course Scholarships
Awarded to the outstanding student in each year at Scarborough College. Each student is nominated by the student's faculty. No application is required.

University of Toronto In-course Scholarships
Awarded to the outstanding students who have completed a minimum of one year's work at the University of Toronto. All students with excellent academic standing are considered; no application is required.

Scarbrough College Students' Council In-course Award
Three awards are made to students who have at least a B average or better and have contributed to the academic, social or cultural life of the College. Students must have three nominators for this award; one must be a member of the faculty; one must be a member of the student body.

Bladen Prize in Economics
Awarded on the basis of an essay submitted by a student specializing in Commerce or Economics and who has completed a B or B+ level course in Economics.

John Pounder in Astronomy
Awarded to a full-time student with an overall average of A (80% or better) in Astronomy.

William Beadmore 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 recipient must be a member of the faculty of History. No application is required.

Driekamp Essay Prize
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 recipient must be a member of the faculty of History. No application is required.

Bursaries
University of Toronto Undergraduate Bursaries
Applicants for bursaries must demonstrate financial need. Applications may be obtained from the Student Services Office. Deadline: November 1. Applications will be accepted throughout the Winter Session. Full information may be obtained from The Student Services Office.

Scarbrough College Bursaries
Applicants for bursaries must demonstrate financial need. Applications may be obtained from the Student Services Office.

Paskal Bursary in Psychology
Awarded to a full-time student who has completed a three-year programme and plans to pursue a fourth year (either graduate or undergraduate) with specialization in Psychology. The bursary is awarded on the basis of academic standing (at least Grade B standing is required) and financial need. Awarded in memory of Professor Vivian Paskal, a former member of the faculty of Psychology. The competition will be announced each spring, with applications available from The Student Services Office.

Ontario Student Assistance Programmes
Canadian citizens or permanent residents who have completed their secondary education are eligible for the programme. Full information may be obtained from the Student Services Office.

Graduation Prizes in Humanities, Life Sciences, Physical Sciences and Social Sciences
Awarded to the outstanding member of the graduating class in each of those four areas of study. The recipient must be a member of the faculty of Humanities, Life Sciences, Physical Sciences or Social Sciences. No application is required.

Graduation With High Distinction and With Distinction
Students who complete their degree with a cumulative grade point average of 3.50 or better graduate with high distinction. Those who complete their degree with a cumulative grade point average of 3.20 or better graduate with distinction. The achievement of these students is recognized at the Convocation ceremonies and is recorded on students' transcripts.
Student responsibility

It is the responsibility of each student to read these academic regulations carefully and to adhere to them. Students must also read carefully instructions and information issued from time to time by the College concerning registration procedures, fees, payment, standards of academic honesty and the like.

Some of these regulations may appear to be complicated. Counsellors in the Student Services Office will be pleased to discuss any student in the interpretation of these regulations, in explaining the application of any regulation in a particular case, and (where appropriate) in assisting students who encounter special difficulties to request special consideration with respect to the regulations.

Course selection

In selecting their courses, students must adhere to the following regulations:

1. Courses selected must satisfy the degree requirements.
2. Courses must satisfy the requirements of Programmes of study. Specialist Programmes, Major Programmes or College Programmes. (The completion of an appropriate Programme or Programmes of study is mandatory for all students who first registered at the College in the 1980 Summer Session or thereafter.)
3. Students proceeding to a three-year degree may include, among the fifteen courses required for their degree, no more than ten courses in any single discipline. (This regulation applies to all students who first registered at the College in the 1979-80 Winter Session or thereafter.)
4. Prerequisites and corequisites for each course, as stated in the course descriptions, must be met, unless waived by the instructor.
5. 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.
6. Students may not re-register for credit in a course if they have already passed that course. Students may re-register in a course they have taken, but failed. In such cases, both registrations in the course are shown on the student’s record, and both grades count in the student’s grade point average.

Course selection

<table>
<thead>
<tr>
<th>Final letter of course code</th>
<th>1st term value</th>
<th>2nd term value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>2.0</td>
<td>0.0</td>
</tr>
<tr>
<td>B</td>
<td>0.0</td>
<td>2.0</td>
</tr>
<tr>
<td>C</td>
<td>1.0</td>
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<tr>
<td>D</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>E</td>
<td>0.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Y</td>
<td>1.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Students may register for their courses in accordance with instructions issued each session by the Registrar. Students who wish to change their registration:

- may do so only until the deadlines for adding and withdrawing from courses, stated in the “Academic Calendar” section of this Calendar;
- must notify the Registrar of any change by means of a “Registration Change Form”, submitted by the appropriate deadline, and completed in accordance with instructions issued by the Registrar.

Degree requirements

Three-year degree: new requirements

The following “new” requirements apply to all students who first registered at the College in the 1980 Summer Session or thereafter. To qualify for a three-year degree, such students must:

1. pass at least fifteen courses
2. among these fifteen courses, include no more than ten courses in any single discipline
3. among these fifteen courses, pass at least eight B-level and/or C-level courses
4. complete the requirements of a Major Programme or a College Programme
5. earn a grade of C- or better in at least ten courses, including at least six B-level and/or C-level courses
6. earn a cumulative grade point average of at least 1.50

Four-year degree: old requirements

The following “old” requirements apply only to students who first registered at the College in the 1979-80 Winter Session or earlier. To qualify for a three-year degree, such students must:

1. pass at least fifteen courses
2. among these, pass at least eight B-level and/or C-level courses
3. obtain a grade of C- or better in at least nine courses, including at least five B-level and/or C-level courses
4. for a Bachelor of Science degree, pass at least six B-level and/or C-level courses in Science, as defined below.

Four-year degree: new requirements

The following “new” requirements apply to all students who first registered at the College in the 1980 Summer Session or thereafter. To qualify for a four-year degree, such students must:

1. pass at least twenty courses
2. among these, pass at least thirteen B-level and/or C-level courses
3. complete (a) a Specialist Programme, or (b) two Major Programmes, or (c) a Major Programme and a College Programme
4. earn a grade of C- or better in at least fourteen courses, including at least ten B-level and/or C-level courses
5. earn a cumulative grade point average of at least 1.50
6. for a Bachelor of Science degree, pass at least nine B-level and/or C-level courses in Science, as defined below.
Four-year degree: old requirements

The following "old" requirements apply only to students who first registered at the College in the 1979-80 Winter Session or earlier. To qualify for a four-year degree, such students must:

1. pass at least twenty courses
2. among these, pass at least thirteen B-level and/or C-level courses
3. obtain a grade of C- or better in at least thirteen courses, including at least nine B-level and/or C-level courses
4. for a Bachelor of Science Degree, pass at least nine B-level and/or C-level courses in Science, as defined below.

Courses in science for the B.Sc. degree

The following courses are considered to be courses in Science for purposes of determining eligibility for the Bachelor of Science degree.

a. All B-level and C-level courses in the following disciplines: Astronomy, Biological Science, Chemistry, Computer Science, Geology, Mathematics, Physics, Psychology and Statistics.

b. The following courses in Anthropology: ANTB11, ANTB12, ANTB14, ANTB15, ANTB22, (ANTB25), ANTB26, ANTB27, (ANTB29), (ANTB33), (ANTB36), (ANTB39), ANTB40, ANTB43, ANTB44, ANTB47, ANTB48, ANTB52, ANTB53, (ANTC08), FRTC12, and ANTC38.

c. The following courses in Geography: GGRB02, GGRB03, GGRB07, GGRB15, (GGRB18), GGRB19, (GGRB21), GGRB24, GGRB25, GGRB29, (GGRCS), (GGRDC), (GGRGC), (GGRGC2), (GGRGC3), (GGRGC6), (GGRGC9), (GGRGC10), (GGRGC11), (GGRGC20), (GGRGC21), (GGRGC22), (GGRGC23), (GGRGC24), (GGRGC25), (GGRGC26), (GGRGC30), (GGRGC32). In addition, GGRG01 may be used to fulfill the B.Sc. requirements for students researching in appropriate scientific areas of Geography.

d. The following joint courses: JBC, JMC, JMP, JPA, JPM courses and JL PB24 and JL PB55.

e. (QUAB02) and QUAC01.

NOTES
1. A Course. The word course is used in two ways. In reference to a single course, (such as "standing in a course") or the last day to withdraw from a course, (such as "full or reduced tuition course") refers to a full course that will carry course credits. In reference to an elective number of courses (such as the requirement of passing fifteen courses for a three-year degree), the word refers to a number of official courses or the equivalent in full and/or part courses.
2. To Pass a Course. To pass a course means to obtain a grade of D- or better in that course (or "Credit" in a Credit/No Credit course).
3. A Specific Prerequisite. This rule does not apply in any case of non-specific prerequisites such as an "open" liberal course in English (or in the case where one of a more completely different courses may serve as prerequisite).
4. A descriptive title (branch knowledge of teaching) such as "History of Physics or Sociology) is defined, for purposes of registration, as a subject area.
5. a) in which courses are listed together in the same section of course descriptions in this Calendar and
b) whose courses share the same "discipline abbreviation" in the course code e.g. HIS or PHY or SOC.
6. Where students register in courses offered jointly by two disciplines e.g. JBC355, a joint Biology and Chemistry course (biotechnology), students may count the course in whichever discipline they wish.
7. "AMA" and "ETA" courses, are considered to be courses in science for purposes of determining eligibility for the B.Sc. degree. Other courses in statistical methods offered by various other disciplines may or may not count as courses in science for purposes of this rule. Thus for example, ANTB43, GGRB02, GGRB07 and PB590 are listed in the rule, and may or may not count as science courses. ECON01, ECO12 and SOC500 may not.
8. Courses shown in parentheses are courses that were in the curriculum in previous years, but are no longer offered. These courses may be counted as Science courses for purposes of this rule.
9. Special Note. In that a student majoring in a University of Toronto degree need not satisfy this requirement.
10. A year of residence means a period of a 360-day period not commencing on the first day of the term for which the student received a record of course completion on the official transcript.

Programme requirements: new rules

These requirements apply to all degree students who registered at the College in the 1980 Summer Session or thereafter.

Three-Year Degree
To meet the requirements of the Three-Year Degree, students must complete either a Major Programme or a College Programme.

Four-Year Degree
To meet the requirements of the four-year degree, students must complete a Specialist Programme, or two Major Programmes, or a Major and a College Programme.

Specialist Programmes
Specialist Programmes are designed to provide a depth and intensity of study within a limited area — 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. (A list of Specialist Programmes may be found on p. 40.)

Major Programmes
Major Programmes are designed to provide concentration in an area of study — 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. (A list of Major Programmes may be found on p. 40.)

College Programmes
College Programmes are designed to provide an organizing framework for students desiring wide-ranging but coherent programmes of study in a major area of the curriculum. A College Programme may be taken as part of either a three- or a four-year degree. (A list of College Programmes may be found on p. 40.)

Approved Individual Programmes
Students may, if they wish, propose individual programmes of study, other than those described in this Calendar. Normally, such proposals will be considered favourably by the Students on the Scarboro-ROUGH College Honours List (see page 15). Proposals should be made to the Associate Dean, who will convey them to the College Sub-committee on Academic Programmes. They may be made at any time after the session in which students complete their fourth course. Proposals submitted before 1 May will be considered in time to enable students to register in their approved Programmes in the forthcoming Winter Session. However, they should be submitted earlier, if possible.

Course selection for Programmes of study

Students are responsible for ensuring that their course selection will enable them to complete the requirements of their Programme(s) by the time they complete their other degree requirements.

A member of the College faculty serves as supervisor for each Programme. In certain Programmes, a supervisor is not required by the rules. In all Programmes, the supervisor is available for advice concerning Programme requirements and course selection. While students in their first year of full-time study, or first four courses of part-time study, are not required to select a Programme, they should, when selecting their first-year courses, consider carefully the requirements of any Programmes they may later choose to follow. Supervisors, instructors in A-level courses, other appropriate faculty members, and counsellors in Student Services may be consulted for assistance. Students in their second and higher years of full-time study, and part-time students who have completed more than four courses, should consult annually with the supervisors in their Programmes to ensure that their course selection will meet Programme requirements.

Registration in Programmes

First year students (or students in their first four courses of part-time study) are not required to choose or register in a Programme(s). Rather students may make use of their experience in their first-year courses to help them select their Programmes. To this end, students are not required to take more than two courses in any discipline in their first year of study. However, as noted above, students may register in an approved Programme(s) by the time they complete their first-year course selection will fulfill the requirements of any Programme they may later choose to follow.

Beginning with their second year of full-time study (or following their fourth course of part-time study), students must register in one or two Programmes of study. Students register in their Programmes at the time they submit their course registration for any Winter Session.
Programme requirements: applicable to pre-1980 students

1. Students who first registered at Scarborough College before the 1980 Summer Session (when the new Programme requirements came into effect) are not required to complete a Programme(s) in order to complete their degree. Such students may, however, still choose to complete a Programme(s) and to obtain certification on their transcripts.

2. Students who had passed fewer than five courses as of the beginning of the 1979-80 Winter Session and who wish to complete a Programme will be expected to complete the Programme requirements set out in the 1980-81 Calendar, or in subsequent Calendars.

3. Students who had passed at least five courses as of the beginning of the 1979-80 Winter Session are expected to complete the Programme requirements set out in the 1980-81 Calendar, or in subsequent Calendars.

English proficiency requirements

The following requirement applies to all degree students who first registered at Scarborough College in the 1980 Summer Session or thereafter. Such students must demonstrate an appropriate level of proficiency in the use of the English language, as follows:

1. All students will be required to take a designated test in English Language proficiency at the first opportunity after admission. Students who pass this test will be deemed to have met the English proficiency requirement.

2. Students who fail the test must meet the English proficiency requirement within a two-year residence period after their first attempting the test. They may do so either:
   a. by passing the test at a subsequent sitting, or
   b. by passing a designated course in English language skills. (These courses are described in an Appendix to this section of the Calendar.)

3. Students who fail to meet the English proficiency requirement within the two-year residence period will be refused further registration until such time as the requirement has been satisfied.
Standing in a course

Grading scheme

<table>
<thead>
<tr>
<th>Grade</th>
<th>Value</th>
<th>Point</th>
<th>Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
<td>90 – 100</td>
<td>Excellent</td>
</tr>
<tr>
<td>A-</td>
<td>4.0</td>
<td>85 – 89</td>
<td>Good</td>
</tr>
<tr>
<td>A+</td>
<td>4.0</td>
<td>90 – 93</td>
<td>Excellent</td>
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<tr>
<td>B</td>
<td>3.7</td>
<td>77 – 79</td>
<td>Good</td>
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<tr>
<td>B+</td>
<td>3.7</td>
<td>80 – 84</td>
<td>Excellent</td>
</tr>
<tr>
<td>B</td>
<td>3.3</td>
<td>73 – 76</td>
<td>Good</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
<td>77 – 80</td>
<td>Excellent</td>
</tr>
<tr>
<td>C</td>
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<td>Adequate</td>
</tr>
<tr>
<td>C+</td>
<td>2.0</td>
<td>60 – 62</td>
<td>Adequate</td>
</tr>
<tr>
<td>D</td>
<td>1.3</td>
<td>53 – 56</td>
<td>Marginal</td>
</tr>
<tr>
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<td>57 – 59</td>
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</tr>
<tr>
<td>E</td>
<td>0.0</td>
<td>0 – 34</td>
<td>Wholly Inadequate</td>
</tr>
<tr>
<td>NCR</td>
<td>0.0</td>
<td>No credit in Credit- /No-credit course</td>
<td></td>
</tr>
</tbody>
</table>

Grades of E, F, and NCR are failing grades, yielding no standing in a course and no degree credit.

Credit/No credit courses

In some courses such as music performance courses, drama courses, or conversation courses in languages, specific letter grades may not be assigned. Students may instead be graded on a Credit/No credit (CR/NCR) system. Where a student earns a grade of "Credit" in such a course, the course counts as one of the courses at C- or better required for the degree. The grade of "No credit" is a failing grade, yielding no standing in the course and no degree credit. 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.

Standing deferred

The standing committee on standing may, on petition, assign an interim grade of "Standing deferred" (SDF). This grade is assigned in cases where an extension of time to complete a course is granted on the basis of medical or similar evidence. The grade of "Standing deferred" must be replaced by a regular grade assigned by the instructor before the expiry of the specific extension period. (Until such time, grade point averages will not be calculated and academic status will not be assessed.)

Aeorotar standing

The standing committee on standing may, on petition, assign a grade of "Aerograt" (AER). This grade is assigned on the basis of term work where medical or similar evidence demonstrates that a student is unable to complete course requirements within a reasonable time, and where a student has already completed at least 60% of the work of the course with a term mark of B-or better. Where a student is assigned Aegorotar standing, the course is counted as one of the courses at C- or better required for the degree. The course is not included in any grade point average.

Extra courses

Where a student is permitted, on petition, to take an extra course, 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 or in the determination of academic status.

Overall standing

Grade point averages

Both a sessional and a cumulative grade point average (GPA) will be calculated for each student at the end of each session, and shown on the student's transcript.

1. A grade point average is calculated as follows: The grade points earned in each full course and one-half of the grade points earned in each half course are added together and this total 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):

1. In good standing

2. On probation

3. Probation cleared

4. Suspended or refused further registration

Where the probationary GPA is less than 2.00, the student will incur suspension or refusal of further registration.

Where students who have incurred no previous suspension will be suspended for one year.

Where students who have previously incurred (at least) a one-year suspension will be suspended for three years.

Where students who have previously incurred a three-year suspension will be refused further registration in the College.

Petitions for application of pre-1978 rules

The above rules governing the determination of academic status were introduced as of the 1978 Summer Session. Students who began their degree programmes under the "old" (pre-summer 1978) rules and incur suspension or refusal of further registration under the "new" rules (above) may in certain circumstances petition for application of the old rules. Such students should consult with the Registrar's Office or Student Services to determine their eligibility to petition for application of the old rules. (The "old" rules may be found on pages 24-25 of the 1979-80 Calendar.)

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 standing of students admitted on condition will be assessed at the end of the session in which such students complete their second full course (or 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 admitted "in good standing".

3. Where such students earn a 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 according to the appropriate rules above.
Courses on other campuses

To enrich course selection opportunities, students on each campus of the University of Toronto are permitted to take some courses on other campuses, if they wish to do so. Hence, students at Scarborough College are permitted to request registration in courses offered by the Faculty of Arts and Science on the St. George and Erindale campuses, subject to the following rules.

Equivalent courses
a. Students may not register in any day course on another campus where an equivalent course is offered on the Scarborough campus during the same session.

b. Students may not register in any evening course on another campus where an equivalent course is offered on the Scarborough campus in the evening during the same session.

A list of courses, deemed to be equivalent for purposes of this rule, may be consulted in the Office of the Registrar, Student Services, or any Divisional Office.

Overall limits
Of the total number of courses completed by Scarborough College students, at least one half must at all times be Scarborough College courses. (The total number of courses refers to the sum of the courses in which students are registered plus those which they have already passed.)

Sessional limits
Students may register in no more than two St. George or Erindale Campus courses in any session.

Term limits in the Summer Session
Where a student registers for any course on another campus in the Summer Session, the student may register in:

a. no more than two full courses for the Summer Session, and

b. a "term course load" of no greater than three. (In determining "term course load", Y, F, and S courses count as one course; A and B courses count as two; and H and J courses count as one half. Note particularly that students may not register in two B courses or in one B and two S courses.)

Exceptions for fourth year students
a. For purposes of these regulations, fourth year students are defined as those who have passed fourteen or more full courses (or equivalent) at the beginning of the session.

b. Fourth year students who are registered in a Specialist Programme (such as Computer Science or Physics) that specifies completion of one or more fourth year St. George Courses are exempted from both the rule on sessional limits and from the rule on equivalent courses.

c. Other fourth year students are exempted from the sessional limits but not the rule on equivalent courses.

Other than Arts and Science credits
Students are not permitted to register for courses in Faculties other than Arts and Science for credit towards their Arts and Science degrees unless they have received the permission of the Sub-Committee on Standing.

Study at other universities: Letters of permission

Students in good standing may request permission to take a limited number of courses at another university for credit towards their University of Toronto degree. Such students may be granted letters of permission.

Letters of permission
To take a course at another university, students must, in advance, request a "Letter of permission" from Scarborough College.

Requests should be addressed to the Admissions/Liaison Officer, on a form available from the Student Services Office. Requests should include the name of the university, the course number, title and description. Requests should be submitted well in advance of the date of the proposed courses.

Credit will not be granted for courses for which prior permission has not been requested and approved.

Minimum grade requirement
To receive credit for a course taken at another university on a "Letter of permission", the student must earn at least one full grade higher than the minimum passing grade (i.e. a grade of C- or better at universities employing a grading system similar to that of the University of Toronto).

Accountability for courses on Letter of permission
Students who have requested and received a letter of permission are required to submit an official transcript from the host university promptly after completion of the course. Students who do not register for their course, or who withdraw without penalty from it, are required to submit a confirming letter from the Registrar of the host university. Failure to meet this requirement may result in a grade of F being entered on the student's record at Scarborough College.

Limits on Letters of permission
1. For a three-year degree — Students may take a maximum of five courses at other recognized institutions on letters of permission provided that, by the end of their degree programmes they:
   a. complete at least eight courses at Scarborough College;
   b. complete at least three B-level and/or C-level courses with a grade of at least C at this University.

2. For a four-year degree — Students may take a maximum of five courses at other recognized institutions on letters of permission, provided that, by the end of their degree programmes they:
   a. complete at least 11 courses at Scarborough College;
   b. complete five B-level and/or C-level courses with a grade of at least C at this University.

3. If students have received transfer credit on admission, the number of courses which they may complete on a letter of permission will be affected as follows:

<table>
<thead>
<tr>
<th>Transfer credit admission</th>
<th>Degree</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td># of courses</td>
<td></td>
<td>I</td>
<td>I</td>
<td>I</td>
<td>I</td>
<td>II</td>
<td>II</td>
<td>II</td>
<td>II</td>
<td>II</td>
<td>III</td>
</tr>
<tr>
<td>which may be taken on letter of Permission</td>
<td></td>
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</tr>
</tbody>
</table>

4. No letter of permission will be granted for courses taken at other post-secondary institutions within Metropolitan Toronto, correspondence courses, or courses deemed inappropriate for Arts and Science degree credit at this University.

5. No letter of permission will be granted to a student who has been suspended or who is on academic probation.
Study at other universities: Study elsewhere year

Students who wish to spend a year of full-time study at another university, for credit towards their University of Toronto degree, should apply for a Study elsewhere year.

Types of Study elsewhere years

There are basically two types of Study elsewhere.

1. Students may apply through the Study elsewhere committee at a host university and follow its courses for credit; these credits will then be translated into Scarborough College credits. These courses will appear on students' Scarborough College transcripts, but the grades assigned by the host university will not be recorded and will not be included in any grade point average.

2. Students may elect to do Scarborough College supervised reading or independent study courses off-campus at a location which will enhance their study. These courses will appear on students' Scarborough College transcripts; grades will be recorded and included in grade point averaging.

A combination of the above types is also possible, with some courses followed at a host university for credit transfer, and some Scarborough College supervised study courses taken while the student is on the host campus.

Fees and aid

Students taking courses for transfer credit (as in 1 above) pay the appropriate fees at the host university and a fee of $100 to the University of Toronto in order to maintain registration at Scarborough College.

Students taking Scarborough College supervised study courses elsewhere (as in 2 above) pay regular Scarborough College fees.

Students in a mixed programme (as in 3 above) pay $20 for each full course (or equivalent) for which they register for credit transfer plus the regular fee for Scarborough College supervised study courses.

Students who would be eligible for Ontario Student Assistance for study at Scarborough College may be eligible for similar assistance in their Study elsewhere year. (Consult the Student Service Office for full information.)

Degrees

A student may receive only one undergraduate Arts or Science degree from the University of Toronto. 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.

a. Students who wish to graduate must notify the Office of the Registrar on a degree request form by 15 February for graduation at Spring Convocation or by 15 July for graduation at Fall Convocation. Where a student submits the degree request form late, every effort will be made to include the student's name on the graduation list, but there is no guarantee that this will be possible. If the student's name is added, a late fee of twenty-five dollars will be charged.

b. 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. Completion of the four-year degree requirements will be noted on the student's transcript. (Diplomas indicate only completion of a 'Bachelor of Arts' or 'Bachelor of Science' degree. No distinction is made on diplomas between three- and four-year degrees.) 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.

Degrees are conferred at university convocations, held twice annually: the Spring Convocation held in June and the Fall Convocation held in November or early in December. Students who have submitted the degree request form will be mailed complete information about the time and arrangements for the convocation.

Academic transcripts

The academic transcript is the official statement of the academic record of each student.

Contents

The transcript records the following information:

a. Information to identify the student: full name, university student number, social insurance number, and date of birth;

b. Admission information: basis of admission (e.g. Ontario Grade XIII, 85.0%) and a list of any courses completed at other universities for which the student was granted advanced standing credit;

c. The student's academic record, listed chronologically by session. For each session, the transcript indicates:

i. each course attempted, its abbreviated title, and its grade;

ii. the sessional grade point average;

iii. the cumulative grade point average at the end of the session;

iv. 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, or refused further registration;

v. completion of degree and programme requirements, and date of conferral of the degree;

vi. any academic honours awarded: scholarships, prizes or medals awarded by the College or 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.

a. 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.

b. Copies of transcripts sent directly to educational institutions and other institutional recipients bear a replica signature of the Registrar and the official College seal. To prevent tampering, most institutional recipients insist that the transcript copy be sent directly to them and that it not pass through the student's hands.
Access to student records

In order (a) to allow students as great a degree of access to their own academic records as is academically justifiable and administratively feasible, and at the same time (b) to safeguard students' rights to privacy of their academic records, the University of Toronto implemented on 1 July 1979 a "Policy on access to student records maintained by undergraduate academic divisions of the University of Toronto." The implementation of this policy with respect to Scarborough College students is as follows:

1. student records in computer files, except information dealing with students' applications for admission (particularly the secondary school principal's confidential recommendation)
2. student's paper files, except for information filed before 1 July 1979, when this policy was implemented, information relating to students' applications for admission (particularly the secondary school principal's recommendation), and medical information.

b Students who wish to inspect their academic records (as provided in (a) above) must make their request in writing to the Assistant Registrar. The Assistant Registrar will arrange individual appointments at a mutually convenient time within thirty days of the receipt of students' requests. At the appointed time, students may examine their records in the presence of the Assistant Registrar (or another designated member of the Registrar's Office staff).

c Students may request a copy of the material in their files (to which they have access), for a ten dollar copying fee.

d Other parts of student records are considered confidential, and access will be granted only as follows:

Students' access to their own records

Withdrawal from a course

a Students may withdraw from courses up to the following deadlines:

<table>
<thead>
<tr>
<th>Course</th>
<th>Summer</th>
<th>Winter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year-long (Y.H)</td>
<td>22 July</td>
<td>Feb 10, 1984</td>
</tr>
<tr>
<td>1st term (F.A)</td>
<td>10 June</td>
<td>Nov 4, 1983</td>
</tr>
<tr>
<td>2nd term (S.B)</td>
<td>29 July</td>
<td>Feb 24, 1984</td>
</tr>
</tbody>
</table>

Where a student withdraws from a course by the appropriate deadline, no record of registration in the course is shown on the student's transcript. A student may also withdraw from a course by completing the "registration change form" and submitting the form to the Office of the Registrar. Where this is not possible, the student may write to the Office of the Registrar.

c Students who withdraw from courses by appropriate deadlines are entitled to a fees adjustment. For full information, please refer to the registration information published each session. The amount of the fees adjustment is determined by the date upon which the "registration change form" or other written notification is received by the Office of the Registrar.

d Students who withdraw from courses will be given or mailed a receipted copy of their "registration change form." Students should retain these copies until after they have received their statement of results for the particular session.
Regulations governing special students

Withdrawal from the session

a. Students who wish to withdraw from the College for a given session do so by:
   i. withdrawing from all courses, in accordance with the procedures and deadlines above; and
   ii. completing the procedures outlined in (b) below.

Where a student withdraws from the College after completing a first-term course, the student retains credit for that course (or retains a failing grade). Where a student wishes to withdraw from the College before completing a course but after the deadline for withdrawal from that course, the student will not be permitted to withdraw from that course. That is, registration in the incomplete course will be shown on the academic transcript along with (presumably) a failing grade.

b. In addition to withdrawing from courses, students must complete the following procedures and submit a "Withdrawal clearance form" to show that they have done so:
   - Surrender any Bookstore charge card and arrange payment of any outstanding account;
   - Return any borrowed books to the Library, pay any outstanding library fines, and surrender their library card;
   - Return any equipment borrowed from the College Recreation Centre and surrender any recreation centre locker;
   - Surrender any College locker and return (perhaps for a partial refund) any College parking permit;
   - Surrender any laboratory locker and equipment; and
   - Surrender their student card.

Students who wish to withdraw from the College are advised to speak with a counsellor in the Student Services Office. The counsellor will advise students concerning the academic consequences of their withdrawal (deadlines, eligibility for re-admission, etc.) and any fees adjustments, and will also advise appropriate students with respect to any required repayment of Ontario Student Assistance.

(These procedures are somewhat simplified for part-time students.)

c. Where students withdraw from the College and from all of their courses in the session, no record of registration and withdrawal is shown on their transcripts. (This policy became effective beginning with the 1978 Summer Session.)

Grading practices policy

As early as possible in each course (and no later than the last date to add that course) the instructor will make available to the class the methods by which student performance will be evaluated and the relative weight of these methods.

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 two-thirds of the students registered in the course.

The final grade in a course will normally be based on more than one evaluation element, i.e. on more than one examination, essay, or other similar piece of work. Normally, no one evaluation element will be worth more than two-thirds of the final grade. Exempt from this requirement are advanced seminar courses or supervised research or supervised reading courses; in such courses, more than two-thirds of the final grade may be based on a thesis, a research essay or project, or a comprehensive examination.

Normally at least one-third of the final grade in a course will be based on supervised examinations.

a. In A-level courses, at least one-third of the final grade will be based upon a formal examination(s) in the Christmas examination period in December and/or in the final examination period in April and May (or in comparable examination periods in the Summer Session).

b. In B-level and C-level courses, at least one-third of the final grade will normally be based upon a formal examination(s) (as in (a) above). Alternatively, a supervised term test(s), valued at least one-third of the final grade, may be substituted for the formal final examination, upon the annual request of the instructor and approval of the appropriate Divisional Chairman.

c. The following courses may be exempted from the requirement for examinations, upon request of the instructor and approval of the appropriate Divisional Chairman: advanced seminar courses; supervised reading or research courses; and performance courses such as musical performance or art studio courses.

The relative value of each part of a written examination will be indicated on the examination paper.

Instructors will make available to students commentary on assessed term work and will make available time for discussion of such work. Grades, as an expression of the instructor's best judgement of each student's overall performance in a course, will not be determined by a system of quotas.

Grades, submitted by the instructor in each course, are subject to review by the marks review committee of the appropriate division and by the Scarborough College marks review sub-committee.

For procedures for appeals concerning grades and grading practices, see below "Procedures for requesting special consideration, petitions, and appeals."
Procedures for requesting special consideration, petitions and appeals

Requests for special consideration in a course:
A student may find it necessary to request special consideration in a course owing to illness or other extenuating circumstances.

a Term work
i Special consideration before the end of the term:
- 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 to attend the term examination because of illness, shall submit the following to the sub-committee:
  - A written statement from a physician stating the nature and extent of the illness, the student's incapacity to attend the examination on the scheduled date, and the name and telephone number of the attending physician.

Requests for special consideration must be submitted on or before the last day of the term. Where the sub-committee accepts the validity of the request, the student will be permitted to write a make-up term examination.

b Final examinations:
- Students who are not able to write a final examination because of illness or other extenuating circumstances shall submit the following to the sub-committee:
  - A written statement from a physician stating the nature and extent of the illness, the student's incapacity to attend the examination on the scheduled date, and the name and telephone number of the attending physician.

Where the sub-committee accepts the validity of the request, the student will be permitted to write a make-up final examination.

Requests for checking of marks in a course:
Where students believe that an error has been made in the calculation of their final grade in a course, or in the calculation of a mark on any examination or term assignment, they may request a recheck of the calculations according to the following procedures.

a 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.

b Final examinations
- Students who believe that an error may have occurred in the calculation of their final examination mark may follow the procedures:
  - After the issue of their "statement of results", but within six months of the relevant examination period, students may request a recheck of the calculation of their final examination mark.
  - A ten dollar fee is required at the time of the request.

Students who believe that an error has been made in the calculation of their examination mark, may submit, through the Office of the Registrar, a request for a recheck of the calculation. This request must be made within six months after the relevant examination period. If an error is discovered and the mark is changed, the copying fee will be refunded.

c 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 their grade. This request must be made within six months after the relevant examination period. If an error is discovered and the mark is changed, the fee will be refunded.

Note concerning failed courses
Instructors are required to re-read the final examination (if any) and to re-check the calculation of term and final marks before submitting a failing grade for any student.
Petition of marks in a course

Students who believe their work has been graded unfairly may petition the grade as follows:

a. Term work
   i. Students who wish to petition the 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 the term.
   ii. 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 Chairman of the division offering the course.
   iii. Students who wish to appeal their grade on term work returned to students only after the end of the term (that is, after the instructor submitted grades for the course), may enter a formal petition to the sub-committee on standing. See above for information about the petition procedure.

b. Final examinations

Students who wish to look into the possibility of an appeal of their final examination mark may do the following:

i. After the issue of their statement of results but within six months of the relevant examination period, students may request from the Office of the Registrar a photocopy of their final examination. A ten dollar fee is required at the time of the request.
   ii. After students have seen the photocopy of their final examination but within six months of the relevant examination period, they may submit a petition to the sub-committee on standing to request re-reading of their final examination. The sub-committee will authorize a re-reading only where a student:
      - has articulated clear grounds for reconsideration of some part(s) of the examination, addressing the substance of the answer in relation to the mark given it, or otherwise identifying the nature of the alleged misevaluation,
      - has demonstrated that the alleged misevaluation is of a substantial nature; that is, that, in an objective answer, a correct response has been counted as incorrect; or that, in a subjective or essay answer, the response has been underevaluated substantially.

If an error is discovered and the mark is changed, the copying fee will be refunded.

c. Where the sub-committee on standing authorizes re-reading of any examination or item of term work, it is the responsibility of the division offering the course to arrange the re-reading and to authorize any change in the grade. It has been the usual practice in the divisions to have examinations or term work re-read by the course instructor, unless some convincing argument is put forward by the student that the work be re-read by another member of the faculty.

d. Where the sub-committee on standing authorizes re-reading of an examination or item of term work, the amended grade will stand, whether it is higher or lower than the original grade.

e. Note concerning failed courses:

Instructors are required to re-read the final examination (if any) and to recheck the calculation of term and final marks before submitting a failing grade for any student.

Petitions concerning grading practices in a course

The rules governing the determination of grades in a course (grading practices) are shown above. Students who believe that they have been disadvantaged by violations of these grading practices may proceed as follows:

a. Grading practices during the term
   i. Students who believe an instructor has violated a rule of the College's grading practices during the term are expected to discuss this complaint with the instructor at once.
   ii. If this discussion does not yield a satisfactory resolution to the problem, students may appeal the decision of the instructor to the Chairman of the division offering the course.
   iii. If the appeal does not yield a satisfactory resolution to the problem, students may appeal the decision of the division to the Principal of the College.

b. Grading practices after the end of term

Where students believe an instructor has violated a rule of the College's grading practices, and this alleged violation comes to light only after the end of the term, students may submit a petition to the sub-committee on standing.

Academic appeals: the Scarborough College sub-committee on academic appeals

a. Students may appeal a decision of the sub-committee on standing on a petition by means of an appeal to the Scarborough College sub-committee on academic appeals.

b. 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 by the sub-committee on standing.

An appeal is commenced by filing a notice of appeal (on an appropriate form) through the Office of the Associate Dean of the College. Full information may be obtained from that office.

The University of Toronto academic appeals board

a. Students may appeal a decision of the Scarborough College sub-committee on academic appeals to the academic appeals board of the University of Toronto.

b. Such appeals must be commenced no later than six months after the decision (to be appealed) has been communicated in writing to the student by the sub-committee on standing.

An appeal is commenced by filing a notice of appeal (on an appropriate form) to the secretary of the appeals board, Office of the Governor Council, Secretary at Room 106, Simcoe Hall, St. George Campus, telephone 978-3794.

c. Full information may be obtained from the secretary to the appeals board, Office of the Governor Council, Secretary at Room 106, Simcoe Hall, St. George Campus, telephone 978-3794.

University Ombudsman

The ombudsman assists in any way possible to resolve grievances or complaints, and can recommend changes in academic or administrative decisions where there are grounds for such a recommendation. In handling a grievance or complaint, the ombudsman has access to all relevant files and information, and to all appropriate University officials. The ombudsman is independent of all administrative structures of the University, and is accountable only to the President and the Governing Council. For information, advice, or assistance, contact the office of the University Ombudsman, University of Toronto, 16 Hart House Circle, Toronto, Ontario M5S 1A1 (Telephone 978-4874).

Code of behaviour on academic matters

The Governing Council of the University of Toronto has approved a Code of Behaviour on Academic Matters. The full text of the Code has been published in the brochure "Welcome to the University of Toronto: A selective guide to student services and facilities, available from the Student Services Office. Important parts of the Code, from the point of view of the student, are shown below.

Academic offences

In order to protect the integrity of the teaching, learning and evaluation processes of the University, it shall be an offence for any member of the University:

a. knowingly to use or possess unauthorized aids or obtain unauthorized assistance in any academic examination or term test or to use unauthorized aids or obtain unauthorized assistance in any other form of academic work.

b. knowingly to represent as that of the member in any academic work submitted for credit in a course or program of study any idea or expression of an idea of another.

c. knowingly to submit for credit in any course or program of study, without the knowledge and approval of the member to whom it is submitted, any academic work for which credit has previously been obtained or is being sought in another course or program of study of the University or elsewhere;

d. knowingly to submit for credit in any course or program of study any academic work containing a purport statement of fact or reference to a source which has been misconceived;

e. to forger or in any other way falsify any academic record of the University or of any academic division of the University or to forge or in any other way falsify any academic record of another educational institution used for the purposes of the University of Toronto, or to utter or make use of any such forged or falsified records;

f. to remove books or other library material from a University library without proper authorization, to willfully mutilate library material or misplace it, or in any other way willfully deprive other members of the University of the opportunity to have access to library resources.
Appendix: non-credit courses in writing skills

Students who begin their studies at Scarborough College in the 1980 Summer Session or thereafter will be required to complete the College’s English proficiency requirement (see page 21 of this Calendar). The following non-credit courses are intended primarily for students who fail or do poorly on the English Proficiency Test. They are open, however, to all students who wish to improve their writing skills.

ESLAG1Y (Basic Writing Skills) is intended for students for whom English is a second language. It is offered through the University of Toronto School of Continuing Studies.

EWSAO1F/S (Basic Writing Skills) and EWSAO2F/S (The University Essay) are intended for students whose first language is English. A fee, to be announced, is required for enrollment in these courses.

These courses do not count for credit towards the degree requirements. Note, however, that students who fail the English Proficiency Test may meet the proficiency requirement by passing the appropriate course. Timetable information and registration forms may be obtained from the Registrar’s Office (S-4168) or Student Services (S-302).

Further information about these courses may be obtained from the Writing Laboratory (S-302) or phone: 264-3369.

ESLA01Y Basic Writing Skills
Coordinator: M. Tyacke (School of Continuing Studies)

A non-credit course for students whose native language is not English.

This course is designed to increase facility in expository writing. It will concentrate on sentence structure, organization and logical development. Students will be expected to produce a weekly written assignment, as well as pass a midterm and final written exam nation. Students will also have the opportunity for individual help with paragraph and sentence structure.

Session: Winter Day, Winter Evening and Summer
## Programmes of Study and Course Descriptions

### 3 Course Key

#### The Course Code

<table>
<thead>
<tr>
<th>The Course Code</th>
<th>The Discipline Abbreviation</th>
<th>The first three letters of the course code indicate, in an abbreviated form, the discipline or subject area of the course.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTA01Y &quot;ANT&quot;</td>
<td>indicates a course in Anthropology</td>
<td></td>
</tr>
<tr>
<td>CHM050Y &quot;CHM&quot;</td>
<td>indicates a course in Chemistry</td>
<td></td>
</tr>
<tr>
<td>PHILC87S &quot;PHL&quot;</td>
<td>indicates a course in Philosophy</td>
<td></td>
</tr>
</tbody>
</table>

#### The Course Level

<table>
<thead>
<tr>
<th>The Course Level</th>
<th>The first letter of the course code of a course offered jointly by two disciplines is &quot;J&quot; followed by the first letter of the two disciplines concerned. For example:</th>
</tr>
</thead>
<tbody>
<tr>
<td>JCEB725</td>
<td>indicates a course offered jointly by Commerce and Economics.</td>
</tr>
</tbody>
</table>

#### The Course Number

<table>
<thead>
<tr>
<th>The Course Number</th>
<th>The fifth and sixth letters of the course code are simply course numbers. In most disciplines, these numbers have no particular significance, except to identify the course in a shorthand form. In some disciplines, however, they are significant - for example in History and Economics. The introductory material at the beginning of the course descriptions in any discipline points out any special significance given to course numbering.</th>
</tr>
</thead>
</table>

#### Credit Value and Duration of a Course

<table>
<thead>
<tr>
<th>Credit Value</th>
<th>Winter Session</th>
<th>Summer Session</th>
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</thead>
<tbody>
<tr>
<td>Y</td>
<td>Full Course</td>
<td></td>
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<tr>
<td>F</td>
<td>Half Course</td>
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<td>S</td>
<td>Half Course</td>
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<tr>
<td>H</td>
<td>Half Course</td>
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<tr>
<td>A</td>
<td>Full Course</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Full Course</td>
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</tbody>
</table>

Hence, ANTA01Y is an introductory course in Anthropology taught throughout the second term and worth a full course credit. PHILC87S is an advanced course in Philosophy taught only in the second term and worth one-half a course credit.

**Note:** Courses marked F/S will usually be offered in either the first or second term.
The following Programmes are offered at Scarborough College. In the event that the number of qualified applicants exceeds the teaching or other resources available, enrolment in some of these Programmes may have to be limited. In the event of under-enrolment, some of these Programmes may have to be withdrawn.

### Programmes

#### Major Programmes
- Anthropology*
- Astronomy & Physics
- Biochemistry
- Biology
- Chemistry
- Classical Civilizations
- Classical Studies
- Computer Science
- Drama
- Economics*
- English*
- Fine Art History*
- Fine Art Studio
- French Language*
- French Language & Literature*
- Geography
- German Language
- German Language & Literature
- History*
- Italian Language
- Italian Language & Literature
- Linguistics
- Mathematics
- Medieval Civilizations
- Microbiology & Biochemistry
- Music
- Neurosciences
- Philosophy*
- Physics
- Political Science*
- Psychology*
- Renaissance Studies
- Russian Language & Literature
- Sociology
- Spatial & Environmental Earth Sciences (SEDGe)

#### Specialized Programmes
- Anthropology*
- Astronomy & Physics
- Biochemistry
- Biology
- Chemistry
- Classical Civilizations
- Classical Studies
- Computer Science
- Drama
- Economics*
- English*
- Fine Art History*
- Fine Art Studio
- French Language*
- French Language & Literature*
- Geography
- German Language
- German Language & Literature
- History*
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- Philosophy*
- Physics
- Political Science*
- Psychology*
- Renaissance Studies
- Russian Language & Literature
- Sociology
- Spatial & Environmental Earth Sciences (SEDGe)

### Anthropology

**Assistant Chairman:** L. Sawchuk

**Anthropology** is the study (or science) of humankind, dealing with the origin, development and nature of humans and their culture. As such, it is concerned with human phenomena in the widest possible terms, both biological and cultural. It differs from other social sciences in its comparative and historical approach, and in its intimate links with the physical and natural sciences. Anthropology examines societies today and in the past, as part of complex civilizations and in 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 only, with occasional offerings in the last. Students interested in inquiring about appropriate course sequences in one of the sub-fields are recommended to consult with one of the faculty in that sub-field. Students will be directed to appropriate faculty by the Supervisor of Studies.

#### Specialized Programme in Anthropology

**Supervisor:** M. Latta (284-3153)

The Specialized 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 into diverse yet holistic perspectives on the human phenomena provided by Anthropology.

All students are required to consult with the Supervisor regarding the selection of a course sequence appropriate to their interests and objectives.

The 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. **ANTAOY** Introduction to Anthropology
2. Two courses from among the following:
   - **ANTB15Y** Biological Anthropology
   - **ANTB20Y** Introduction to Social Organization
   - **ANTB26Y** Introduction to Prehistoric Archaeology
3. Six full-course equivalents from the remaining B- and C-level courses in Anthropology.
4. One full-course equivalent in supervised reading and research
   - **ANTC03F**
   - **ANTC04S**
   - **ANTC13F**
   - **ANTC14S**

At least 2 full-course equivalents in disciplines other than Anthropology must be agreed upon in consultation with the Supervisor.
ANT 01Y Introduction to Anthropology
An introduction to the fields of anthropology through which the student will gain understanding of 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 origins and growth of culture. The second term concerns cultural archaeology, 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.
Session: Winter Day, Winter Evening, Summer Day
L. Sewchuk

ANT 01Y Ecological Anthropology
The interrelation of human populations with their environment, particularly as reflected in differences in technology, socio-political organization, and technology. Emphasis will be placed on the view which sees variability in human behavior as the product of adaptation and evolutionary change.
Exclusion: (ANT 10)
Prerequisite: ANTA 01
Session: Winter Day
H. B. Schroeder

ANT 02Y Anthropological Study of Religion
A cross-cultural study of systems of belief and ritual concerning spiritual beings and the cosmos; of social actions, rights and obligations arising out of human dependence on such beings; and of magic, curing, witchcraft and sorcery.
The course is concerned with the anthropological study of supernatural beliefs in a small scale non-Western societies. Topics covered (time permitting) will be: the origin and function of religion; shamanism; myth; ritual; ancestor cults; and dynamics in religion. Seminar: one two-hour session per week.
Prerequisite: ANTA 01
Session: Summer Day, Winter Day
C. Hoppe

ANT 03F The Americas: An Anthropological Perspective
The origin and development of native cultures in the New World, with particular emphasis upon changes due to European contact.
Prerequisite: ANTA 01
Session: Winter Day
R. W. Shirley

ANT 07S Comparative Slavery
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.
Prerequisite: ANTA 01
Session: Winter Day
R. W. Shirley

ANT 14Y Human Evolution
An analysis of the phylogeny of man. The issues and controversies that form the theoretical framework of the understanding of fossil evidence. Readings substitute for a single text.
Class discussion and presentation of assigned readings are expected. Laboratory sessions permit the student to examine fossil and cultural material.
The course involves an analysis of the rise of evolutionary theory through natural selection, the development of genetic theory and the eventual rise of the synthetic theory of evolution. A brief survey of the evolutionary development of vertebrates, a survey of primate fossils and the nature of fossil assemblages.
Prerequisite: ANTA 01
Session: Winter Day
R. W. Shirley

ANT 16F Economic Anthropology
Consideration of comparative economic systems in ecological and adaptive perspective, and the nature of methods of production as a developmental process and as relation to total societal framework.
The course examines cross-cultural systems of production, redistribution, and market exchange, with attention given to the production and use of material objects in differing cultural environments. And to the effects of change on the ideological setting surrounding these objects in specific environmental settings.
Prerequisite: ANTA 01, ANTA 14
Session: Winter Day
T. Burton

ANT 20Y Introduction to Social Organization
A consideration of variations in human social structure, focusing mainly on kinship organized societies.
Prerequisite: ANTA 01 or PSYA 01
Session: Winter Day
R. W. Shirley

ANT 20Y Introductions to Social Organization
A consideration of variations in human social structure, focusing mainly on kinship organized societies.
Prerequisite: ANTA 01 or PSYA 01
Session: Winter Day
R. W. Shirley

ANT15Y Biological Anthropology
The survey of the human place in nature: origin and ongoing evolution (Spring). Basic to course is an understanding of the synthetic theory of evolution and the principles, processes, evidence, and applications of the theory. Laboratory projects acquaint the student with a variety of methods and materials utilized by the biological anthropologist.
Prerequisite: ANTA 01 or PSYA 01
Session: Winter Day
T. Burton

ANT 22Y Primate Behavior
A general review of primate behavior in its ecological setting. Humankind represents only a tiny portion of the primate species. The interest in our own species has generated a proliferation of studies on the other members of this Order. The anthropological bias in such studies is clearly to gain a perspective on human evolution by assessing processes of adaptation. This purpose is served by examining the systems, distribution, social behavior and ecological relationships of the non-human primates. Three hours of lecture per week. The two-hour block permits zoo visits and films. A long paper topic is selected early in the year (it may be a library work or original research at the zoo).
Prerequisite: ANTA 01 or PSYA 01 or BQAD 3
Session: Winter Day
F. D. Burton
ANTB23Y Comparative Mythology
The nature of myth from the viewpoints of Anthropology, Folklore, Philosophy, Linguistics, Psychology and Comparative Religion. The main emphasis is on the nature of oral narrative in small-scale societies. The generation of myth in myth in modern society is also considered. Consideration of various theories of myth and the part it plays in society. The issues of the relationship between myth and other narrative forms, between myth and ritual, myth and thought, and myth and society will be explored. The political context and implications of myth are also discussed. Examples are drawn from a wide range of societies, including African, American Indian, Classical and Near Eastern, and the modern world. Two one-hour lectures and one one-hour discussion session per week.
Session: Winter Evening

ANTB26Y Introduction to Prehistoric Archaeology
A survey of the anthropological sub-discipline which is concerned with human socio-cultural development during the past three million years. Specifically, the course reviews the aims, methodology and results of prehistoric Archaeology in both the New and Old Worlds. This course will involve two hours of lecture and one hour of lab/session per week as well as one field trip on a Saturday or Sunday of the Fall term.
Prerequisite: ANT A01
Session: Winter Evening
H.B. Schroeder

ANTB37F Prehistory of Mexico and Mesoamerica
An attempt to understand the development and achievements of the civilizations of Mexico. We will consider the two main problems: the beginnings of agriculture and its effect on culture and the forces which contribute to the emergence or disappearance of civilization. Students will become familiar with the art, crafts and architectural styles of the best-known sites which typify the civilizations of this region.
Prerequisite: ANT A01
Session: Winter Day
M. Latta

ANTB38S Prehistory of North America North of Mexico
A course complementing ANT B37 by presenting the prehistory of North America north of Mexico. The course will focus on the processes of diffusion and ecological adaptation in the study of the evolution and divergence of North American Indian cultures from a late Paleoindian hunting base. We will give particular attention to the civilizations of the eastern and south-western United States. At the end of the course a field trip to Ohio will permit students to experience the well-known mounds and artifacts of the Hopewell culture.
Prerequisite: ANT A01
Session: Winter Day
M. Latta

ANTB44Y Physiological Anthropology
Physiological principles and systems, ecological principles and systems, and the interrelationship of these two areas. This course is designed to give the student an understanding of physiological Anthropology in its ecological setting, i.e., physiological Anthropology. An anthropological approach to physiology involves considerable attention to evolutionary schemes and comparative physiology.
Specific topics include: introduction to basic physiology, physiological systems (respiration, vision, etc.), physiological systems in adaptation (cold, heat, altitude adaptations, etc.), ecological concepts and analysis (food chains, trophic levels, etc.).
Prerequisite: ANT A01 or BIBA03
Session: Winter Day

ANTB46Y Childhood in Contemporary Cultures
All primates -- monkeys, apes, and humans -- take account of the need of their newborn to learn and to be "socialized." For the infant and child, this requires a series of accommodations to the requirements of family and community, for the community in turn provides guidance and concern.
The results of these activities and developments make up what we call childhood, that which involves play, games, folklore, and myths and the influences that amuse, guide and warn the young. During the course of our examination into childhood, the class will be encouraged to visit and record contemporary child environ-

ANTB52A Field Methods in Archaeology
A consideration of the practice of archaeological, special techniques and problems, with intensive experience in an actual site situation. The course will be offered during the summer. Since it will be necessary for students to live within commuting distance of the site, interested individuals should contact the instructor for details and arrangements. These six weeks of full-time excavation will be carried on with lectures and field trips to provide further insights into the use of archaeological as a tool in historical reconstruction and interpretation. Limited enrollment. 25.
Prerequisite: ANT A01, ANT B26, HIB B04 recommended as well.
Session: Summer Day
M. Latta

ANTC005F and CO4S Directed Reading in Anthropology
A directed exploration of specific topics in Anthropology, based on extensive investigation of the literature. Individual tutorial groups arranged. Prerequisite: Permission of Instructor.
Session: Winter Day, Winter Evening, Summer Evening
Members of Faculty

ANTC09Y The Anthropology of Humor
An investigation of a general theory of humor, a classification of humor, and the search for universals. It is postulated that among other things, the cross-cultural study of humor should lead to a deeper understanding of the nature of the central values and personality in specific societies.
Collected data should yield information on comparative value systems. While examples and illustrations may be drawn from the Western World, most of the research will be concentrated on the "Third World." Data are scattered, but it is hoped that some will be sought in fiction, fables, myths, plays and other sources. Students are expected to become familiar with literature from unfamiliar areas. Seminar: one-two-hour session per week. Limited enrollment. 15.
Prerequisite: Any two of the following courses: ANT A02, ANT B20, ANT B22, ANT B24
Session: Winter Day
C. Hopen
ANTC13F and C14S  Advanced Research in Anthropology
Directed critical examination of specific problems in Anthropology, based on library and/or field research. Individual tutorials, as arranged.
Prerequisite: Permission of instructor
Session: Winter Day, Winter Evening. Summer Evening
Members of Faculty

ANTC17Y  Theory and Methodology in Social/Cultural Anthropology
An overview of the history of ethnological thought, focusing on certain key theoretical debates which run throughout and largely determine the "state of the art" today.
Evolutionary, diffusionist, psychological, cross-cultural, functionalist, structuralist, and hermeneutical approaches will be considered through selected writings from such major figures as Tylor, Durkheim, Boas, Kroeber, Malinowski, Radcliffe-Brown, and Levi-Strauss. An attempt will be made to understand these individuals in terms of the social and intellectual climates in which they wrote.
Exclusion: (ANTC16)
Prerequisite: ANTA01 and ANTB20 or Permission of Instructor
Session: Winter Day

ANTC23S  The Prehistoric Archaeology of Canada
A survey of the varied concerns of Canadian archaeologists and the development of the science of archaeology in Canada. An attempt to understand the significance of Canadian prehistory for modern Canadian social and cultural development.
Exclusion: (ANTB28)
Prerequisite: ANTB38
Session: Winter Evenings
M. Latte

ANTC29F  Analysis of Archaeological Material
An in-depth examination of two major classes of material culture: ceramics and lithics. Students will develop analytical skills through construction and study of artifacts in order to evaluate materials, construction principles and function of tools in prehistoric and contemporary contexts.
Exclusion: (ANTB29)
Prerequisite: Any B-level course in Archaeology
Session: Winter Day
M. Latte

ANTC45F  Biomedical Anthropology
This course is designed for advanced students seeking an intensive examination of specific problems in medical Anthropology.
Problems to be discussed include: genetic disorders in families and populations, the interaction of malnutrition and infectious diseases in human populations, chronic non-infectious diseases in populations today, and epidemiology and medical anthropological as complementary disciplines. Laboratory sections will cover methods of data collection and analysis, problem sets in medical genetics, karyotyping, the use of genetic markers in biomedical anthropology, and the life table and the analysis of cause-specific mortality over time.
Two hours of lectures and one three-hour laboratory session per week.
Prerequisite: ANTB51 and BIOA03; (ANTS59 and ANTB43 or STAB52 or PSYB07 are recommended)
Session: Winter Day
L. Sawchuk

Courses Not Offered in 1983-84

ANTS03Y  Cultures in the Modern World
Exclusion: ANTA01

ANTS05S  Social Anthropological Study of Africa
Prerequisite: ANTA01

ANTS12F  Human Behaviour in the Stone Age
Prerequisite: ANTA01 (ANTS06 is recommended)

ANTS16S  The Rise of Civilization
Prerequisite: ANTA01 (ANTS26 is recommended)

ANTS18S  The Cultures of Modern Canada
Complex Societies
Prerequisite: ANTA01

ANTS24Y  The Organization of Group Cultures
Corequisite: ANTA01 and a course in Social Geography or Psychology or Permission of Instructor

ANTS35S  Language and Culture
Corequisite: ANTB26

ANTS39Y  Human Diversity
Prerequisite: ANTA01, ANTB15 is recommended

ANTS40Y  Anthropological Demography
Prerequisite: ANTA01; ANTB15 is recommended

ANTS51S  Pre-Industrial Technology
Prerequisite: ANTA01

ANTS56S  Quantitative Methods in Anthropology
Exclusion: ECOB11, PSYB07
Prerequisite: ANTA01; ANTB15 and ANTB26 are recommended

ANTS60S  Human Odontology
Prerequisite: ANTA01 or BIOA03; ANTB14 and ANTB15 are recommended

ANTS69S  Law and Society
Prerequisite: ANTA01 or Permission of Instructor

ANTS71Y  Medical Anthropology
Prerequisite: ANTA01

ANTS73Y  Classification and Material Culture
Prerequisite: ANTA01

ANTS74Y  The Anthropology of Sex
Prerequisite: None, although an introductory course in Anthropology and/or Biology would be beneficial

ANTS56Y  Cultures of the Middle East and the Islamic World
Prerequisite: none - it is recommended that students have completed one A-level course in the Social Sciences or Humanities.

ANTS06T  Systems of Thought
Prerequisite: At least one B-level course in social Anthropology

ANTS08T  The Anthropology of Women
Prerequisite: One B-level course in the Social Sciences or Humanities.

ANTS11Y  Research on the Social Behaviour of Non-Human Primates
Prerequisite: ANTB22 or Permission of Instructor

ANTS12F  Frontiers of Anthropology
Prerequisite: ANTD01 and one B-level course in Anthropology

ANTS27Y  Advanced Archaeological Methods: Data Description and Presentation
Exclusion: (ANTS27)
Prerequisite: ANTB26
### Arts

**Specialist Programme in the Arts**  
Supervisor: J. Loughlin (294-3128)

The Specialist programme in the Arts is designed for all those students who would like to acquire a broad foundation of knowledge in Fine Arts, Drama, and Music, while at the same time developing expertise in one of these areas.

We recognize that much artistic work cuts across the strict boundaries of these disciplines and this programme will allow the student to explore the relationships among the arts. Such exploration would be a stimulating experience for any student in the humanities. The programme is also intended to provide career preparation for students who are interested in such fields as arts administration and public and high school teaching.

The course requirements for a specialist programme in Arts are as follows:

1. **The Major Component**
   - The 6 courses to be chosen as the major component are the same as the major programme in each of the four areas. Consult the individual disciplines under major programmes for the specific courses.

2. **The Minor Component**
   - Two of the following programmes must be chosen in areas other than the Major Component: Minor Component in Drama: DRA80Y1, DRA80Y3, DRA80Y4
   - Minor Component in Fine Art History: FARA10F, FARA11S, FARA12F, FARA13S, plus one FCE at the B level (supervisor’s approval required).

**Minor Component in Fine Art Studio:**
- either FARA90F or FARA90F and FARA17S, plus any two FCE’s in Fine Art Studio

**Minor Component in Music:**
- MUSG101, MUSG107, plus an additional 1.5 FCE’s in Music

3. **One FCE from:**
   - HUMB60Y: Women Artists in Society
   - HUMB80Y: Introduction to Cinema
   - HUMB80Y: Creative Writing: An Introduction
   - PSYS51F: Sensation and Perception
   - PSYS51F: Perception and Knowing
   - PSYS51F: Philosophy and Art

4. **HUMC10H in ARTS to be taken after 10 courses.**

**NOTE:** (*require a prerequisite course*)

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### Astronomy

**Discipline Representative:** P.P. Kronberg

Astronomy is at the same time one of the oldest and one of the most dynamic areas of science. It is basically man’s attempt to gain an understanding of his place in the Universe, ranging from the planetary system in which he lives to the most distant galaxies and quasars which can be seen only as they were before men walked this earth. Within the past ten years there have been astronomical observations which suggest the explosive “Big Bang” origin of the entire Universe and the presence of hitherto unsuspected complex molecules in the interstellar medium of our galaxy. The implications of these and other astronomical discoveries for man and his world are profound.

The full range of astronomical topics is covered at an introductory level in ASTA02 for science students and ASTA03 for non-science students. While selected astrophysical topics are dealt with at a more advanced level in ASTB01 and ASTC01, BACC10 presents the general theory of relativity and some of its applications in astrophysics and cosmology. With the College’s acquisition in 1980 of a modern Questar 12-inch telescope equipped with photometer and spectograph, an astrophysics laboratory course ASTB02 has been introduced, which is based on astronomical observation by the students using the telescope.

**Specialist Programme in Astronomy and Physics**  
Supervisor: P. Kronberg (294-3378) and J. King (294-3318)

Astronomy and astrophysics research occupy a prominent place in modern frontier research in Physical Science. Likewise research and other activities in space will occupy an increasingly important place in the endeavors of the industrial nations. The aim of the Astronomy and Physics Specialist Programme described here is to prepare the student for a postgraduate study of astronomy and astrophysics at the research level or for a further career in space-related activities in industry or government.

Modern astronomy draws extensively on the fields of physics and mathematics. In order that the Advanced Mathematics courses be available, the early choice of Mathematics courses is crucial. There is likewise a strong core of Physics courses which form the backbone of this Specialist Programme. By acquiring the necessary background in astronomy, physics, and mathe-
Astronomy and Astrophysics: An Introduction

This modern look at the Universe an appreciation of the techniques and implications of astronomical observations is developed through an application of familiar physical concepts to the astronomical setting. The material discussed covers observations in the entire electromagnetic spectrum, from X-rays to the radio band. It ranges from the relatively nearby solar system to the distant reaches of quasars; from the wasteland of interstellar space to the nuclear inferno deep in a stellar interior; from the quiet life of a star like the sun to its often cataclysmic demise; from the tranquility of an interstellar dust cloud to the frenzied environs of a pulsar, an X-ray source or a black hole. Completion of this course should better equip one to assess the importance of forthcoming developments in the advancement of knowledge of the Universe and to contemplate such questions as life on other worlds.

Instruction in the use of the telescopes, cameras and darkroom equipment is provided for all interested students, whether their ultimate purpose is carrying out a term project or merely extracurricular star-gazing.

Two lectures and one tutorial/laboratory per week. Practical observations are introduced in the laboratory periods and on scheduled evenings in the fall. Visits to the David Dunlap Observatory and the McLaughlin Planetarium are also arranged.

Exclusion: ASTA03

Prerequisite: Grade 13 Physics, Grade 13 Functions and Relations

Session: Winter Day

M. Duncan

ASTAG3Y Introduction to Astronomy

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 the non-science student. Methods and techniques for exploring the Universe are described, including the recent use of radio telescopes and 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 photograph heavenly bodies if they wish.

Exclusion: ASTA02

Session: Winter Day

P.P. Kronberg

ASTB01Y Topics in Astrophysics: Origin and Evolution of Stellar and Galactic Systems

Theories and observational evidence related to the origin and subsequent evolution of astrophysical objects. The course will consist of five topics: the origin and evolution of the universe as a whole, of the galaxies, of the stars, and of the solar system, and a study of the conditions for and possibilities of other life in our Galaxy.

Students are given a comprehensive introduction, using elementary mathematics and physics, to the first four topics above. Recent developments in these areas are noted and results of numerical computations are presented. On the basis of knowledge thus gained the possibility of extrasolar planetary systems is discussed; the question of whether the origin of life is considered in the context of recent discoveries of complex molecules in the interstellar medium. Two lectures and one tutorial per week.

Prerequisite: PHYA03 or PHYA02; MAT026 or MAT055 and ASTA02Y

Session: Winter Day

ASTB02H Practical Astronomy

Practical experience in astronomical photography, spectroscopy and photometry using the College telescopes.

The methods of astronomical photography, spectroscopy and photometry will be studied. Experimental work specifically suited to obtaining data from observations with Scarboroug College's 12 inch Questar will be emphasized. Photographic, spectrographic and photometric equipment will be available for use by students during times suitable to individual students for use in their projects.

This course is intended primarily, but not solely, for students in the Major and Specialist Programmes in Astronomy and Physics.

Prerequisite: ASTA02 or ASTA03; PHYA03 (PHYA02); MAT026 or MAT055

Session: Winter Day

P.G. Martin

ASTB06 Great Moments in Astronomy

Examination of the people, the background events associated with some major advances in astronomy. Emphasis is given to the role of a few key individuals and to how their ideas have revolutionized our understanding of the Universe and the Universe. Implications of the intellectual outlook are also discussed. The course focuses on: the first measurement of stellar parallaxes; the discovery of the existence of Neptune; the discovery of the nature of stars; the concept of the universe as an "island universe"; the breaking of the cosmic fireball; and the expansion of the Universe. The perspective gained is used to assess current astronomical research and its impact on society.

The course is intended primarily for students in the Science, Philosophy or, in their second or third year, wish to acquire an understanding of the origins and significance of our present view. A term paper dealing in detail with an aspect of one of the topics is required.

Prerequisite: A full-course equivalent

Session: Winter Evening

C. Roeder

ASTB04F Qualitative Cosmology

An introduction to the theoretical and observational cosmology, the study of the universe, presented to students who are not majoring in the Physical Sciences. Questions related to the uniqueness of the universe are discussed within the frameworks provided by both the theory of the universe and its models of the universe. The concept of the universe and the possible future development of the universe are described, with emphasis on the interpretations of present observational data.

Exclusions: ASTA03Y, or ASTB035

Session: Winter Day

ASTC01H Research Topics in Astronomy

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 his work. The student is expected to gain an appreciation of the current state of knowledge about a particular topic of astrophysical interest and to become familiar with the basic methods of research. The topic will be selected by one of the instructors in consultation with the student. Formal lectures are replaced by regular consultation between the student and instructor. It is expected that at least 50 hours of work will be done during the year, following which the mini-thesis will be submitted to the instructor. More detailed information can be obtained from Professor Kronberg, Martin, or Roeder. The bibliography is dependent upon the topic selected.

Prerequisite: ASTA02 or ASTB01; PHYA01; permission of instructor

Session: Winter Day

C.C. Dyer, P.P. Kronberg, P.G. Martin, R.C. Roeder

Courses Not Offered in 1983-1984

JPA01Y Relativity and Cosmology

ASTB01Y Introduction to Astronomy

AST AGUF
Biological Sciences

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.

Two Programmes in Biology are offered. (1) The Specialist Programme: For students wishing to concentrate in the biological sciences. This Programme covers core areas of Biology and a number of courses in cognate disciplines. (2) The Major Programme: For students interested in Biology but wishing to combine it with other areas of interest.

A guide to recommended course patterns in Biology and related subjects is contained in a brochure (Biology at Scarborough) which is available in Student Services, in the office of the Head of Life Sciences, and from the Associate Dean, (Biology) or Supervisors of Programmes.

Supervisors and other staff members should be consulted if you have questions about your Programme in Biology, or the year-to-year sequence of taking courses.

Specialist Programme in Biology
Supervisor: I. Campbell

This Programme includes the following fourteen full-course equivalents:

1. BIO03Y
2. At least one full-course equivalent from each of the following core areas:
   a. Genetics and Evolution: BIO085Y, BIO11Y, BIO23Y
   b. Physiology and Biochemistry: BIO02Y, BIO06Y, BIO18Y, BIO13Y, JCB36Y, BIO048Y, BIO049Y, BIO12Y
   d. Morphology and Taxonomy: BIO08Y, BIO13Y, BIO20F, BIO22Y, BIO24Y, BIO27Y

3. Five other full-course equivalents in Biology, unspecified. These must include at least one full-course equivalent at the C-level and the plant sciences, e.g., BIO06Y, BIO13Y, BIO24Y, BIO47Y, BIO49S, BIO11Y, BIO12Y. These five courses may include courses offered on other campuses of the University of Toronto subject to the general regulations for residence (1983-84 Calendar). For a list of courses approved for this purpose, consult the Life Sciences Divisional Office.

4. Four courses in cognate disciplines:
   a. CHMA02Y
   b. PHYA08Y or PHYA08Y
   c. Any one of the following: MAT12Y, MAT26Y, MAT27Y, or MAT26Y
   d. One course from each of the above groups must be taken.

5. One full-course equivalent from selected offerings in Humanities or Social Science. A list of courses from which one is to be chosen is available in the office of the Supervisor of the Divisional Office.

A list of courses particularly suitable as options in the Biology Specialist Programme is also available in the office of the Supervisor or the Divisional Office.

Students are referred also to the following Programmes: Specialist Programme in Chemistry and Biochemistry (listed under Chemistry); Quaternary Studies; Microbiology and Biochemistry; and Neurosciences.

Major Programme in Biology
Supervisor: I. Campbell

This Programme includes BIO03Y and any two additional full-course equivalents in the S-level courses offered by the Biology section of Life Sciences at Scarborough College, with the following restrictions:

1. At least one full-course equivalent must be in the plant sciences and one in the animal sciences.
2. At least one full-course equivalent from each of the following groups (a), (b), (c), and (d) above:
   a. Plant Science courses as required by the Science section of Life Sciences at Scarborough College.
   b. Animal Science courses.
   c. Microbial courses.
   d. Environmental Science courses as required by the Science section of Life Sciences at Scarborough College.

The requirements for the Specialized Programme in Biology include courses in:

- Mathematics, Physics, Chemistry and a non-science course (see above).
- Thus a simple addition to the above.
- General Biology courses will not satisfy the requirements for the Specialist Programme in Biology.

Programme in Microbiology-Chemistry

Specialist Programme in Microbiology-Chemistry
Supervisor: J. Silver (Microbiology) (284-3211); J. Gurd (Biochemistry) (284-3211)

Recent advances in Microbiology and Biochemistry, such as recombinant DNA technology, are being used to advance knowledge in a wide range of biological disciplines as well as in industry and in the biomedical sciences. The Specialist Programme in Microbiology-Chemistry provides a core group of basic courses as well as a firm basis in several Microbiology and Biochemistry sub-disciplines.

Specialist Programme:

- Year 1:
  - EAO3Y: Introductory Biology
  - MAA2Y: General Chemistry
  - TATA2Y: Calculus or Calculus
  - TATA2Y: Calculus with Analysis
  - MIVB0Y: Organic Chemistry
  - MIVB0Y: Organic Chemistry
  - MIVB0Y: Organic Chemistry
  - MIVB0Y: Organic Chemistry

- Year 2:
  - BIO0Y: Basic Microbiology
  - MIVB0Y: Organic Chemistry

- Additional full-course equivalents in Biochemistry, which may be taken in second or third year:
  - BIO5Y: Genetics
  - BIO6Y: Plant Physiology
  - BIO1F: General and Comparative Physiology
  - BIO1S: Biology of Macromolecules
  - BIO4S: Biology of Algae

- Year 3:
  - BIO5Y: Introductory Biochemistry
  - BIO5Y: Introductory Biochemistry
  - BIO5Y: Introductory Biochemistry
  - BIO5Y: Introductory Biochemistry

- Year 4:
  - BIO5Y: Introductory Biochemistry
  - BIO5Y: Introductory Biochemistry

Programme in Microbiology-Biochemistry

Supervisor: J. Silver (Microbiology) (284-3211); J. Gurd (Biochemistry) (284-3211)

Recent advances in Microbiology and Biochemistry, such as recombinant DNA technology, are being used to advance knowledge in a wide range of biological disciplines as well as in industry and in the biomedical sciences. The Major Programme in Microbiology-Biochemistry provides a core group of basic courses as well as a firm basis in several Microbiology and Biochemistry sub-disciplines.

Major Programme in Microbiology-Biochemistry

Supervisor: J. Silver (Microbiology) (284-3211); J. Gurd (Biochemistry) (284-3211)

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BIOA03Y Introductory Biology
The chemical constituents of cells, cell structure and function, inheritance, the structure and function of genes, early developmental processes, mechanisms of development, cellular metabolism, photosynthesis, molecular basis of muscle contraction, basic ecology, plant hormones, evolution. Two one-hour lectures and one three-hour laboratory per week.
This course is designed for students who intend to pursue further courses in Biology or other Natural Sciences. It offers a thorough grounding in 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 and the origin and evolution of life. Laboratory and discussion periods will supplement the lecture material.
Exclusion: Not open to students who are taking NSCAA2.
Session: Winter Day
The Faculty

BIOB02Y Basic Microbiology
The general properties of bacteria, fungi and viruses, their structure, function and relationship to man, employing selected organisms to demonstrate their significance in industry, research and the health sciences. The latter part of the course presents a survey of bacterial and animal viruses, and their structure, function and relationship to man. Laboratories include practical training in basic microbiological techniques.
To gain awareness of the world of microorganisms, their physiology, genetics, structure, and importance in medicine, industry and ecology. To obtain proficiency in the handling and growing of microorganisms in the laboratory. To introduce microbiological techniques used in industrial, hospital and basic research laboratories. One two-hour lecture and three hours of laboratory each week.
Prerequisite: BIOA03
Session: Winter Day
J. Silver

BIOB05Y Genetics
A lecture and laboratory course in basic genetics and bioinformatics, with examples of basic principles of genetics and molecular biology. Mendel's principles, linkage, mapping, recombination, chromosomal genetics, structure of genes, genetic control of protein synthesis, regulation of gene activity, chromosome structure, mutation, cytoplasmic inheritance. Lectures, laboratory, work problems, discussion. Prerequisite: BIOA03
Session: Winter Day
M. F. Filosa

BIOB06Y Plant Physiology
A basic lecture and laboratory course on the general physiology of plants. The plant as a functional organism; water and salt uptake and translocation, water loss; minerals, nutrition, carbohydrate, protein and lipid metabolism. Photosynthesis, transpiration, 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.
Prerequisite: BIOA03
Session: Winter Day
G. F. Israilevich

BIOB11Y Animal Population and Evolution
A study of the processes of heritable change in animal populations with special regard to population genetics, population dynamics and speciation. The lectures deal with genetic variation and its sources, natural selection, genetic drift, and modes of speciation. The laboratory consists of procedures in population genetics and the discussion of current literature on evolutionary and population topics.
Prerequisite: BIOA03
Corequisite: BIOB05
Session: Winter Day
J. Campbell

BIOB12Y Fundamentals of Ecology
The scientific study of the interactions that determine the distribution and abundance of organisms. A course intended to promote the development of an ecologically conscious but not a course devoted to the problems of pollution and populations. Factors limiting the distribution of organisms such as adaptation, behavior, and dispersal; attributes of populations: population estimation, life table analysis, determination of population size for increases, and population growth; species interactions: competition and predation; theories of population regulation, ecological genetics and evolution; attributes of communities: concept of the community, species diversity, community patterns and classification, and climax concept of the ecosystems of the world; community energetics, community nutrition; other topics of general interest including the human population problem, island biogeography, and climate analysis.
Prerequisite: BIOA03
Session: Winter Day

BIOB17Y General and Comparative Physiology
A lecture and laboratory course dealing with the general structure and function of the vertebrates. Emphasis is placed on the evolution, development and anatomical specializations of organ systems as they are related to the physical demands placed upon the organism by its environment. Beginning with the primitive vertebrate ancestors, this course considers the comparative anatomy of the vertebrates from both evolutionary and embryological viewpoints. Evolutionary trends which have led to both the anatomical and physiological diversity of the modern vertebrates are examined. Practical work includes the dissection of representative vertebrates. Lectures and laboratories.
Prerequisite: BIOA03
Session: Winter Day
R. Dengler

BIOB22Y Comparative Vertebrate Morphogenesis
A lecture and laboratory course dealing with the structural diversity of the vertebrates. Emphasis is placed on the evolution, development and anatomical specialization of organ systems as they are related to the physical demands placed upon the organism by its environment. Beginning with the primitive vertebrate ancestors, this course considers the comparative anatomy of the vertebrates from both evolutionary and embryological viewpoints. Evolutionary trends which have led to both the anatomical and physiological diversity of the modern vertebrates are examined. Practical work includes the dissection of representative vertebrates. Lectures and laboratories.
Prerequisite: BIOA03
Session: Winter Day
R. Dengler

BIOB23Y Developmental Biology
The study of the developmental change and underlying molecular and cellular processes which occur during the life history of an organism. An analysis of development in a wide variety of organisms ranging from the unicellular to the multicellular. Particular reference will be given to the concept that regulation of gene activity is fundamental to development. In the Fall term and the first half of the Spring term the principles of animal development are dealt with. The following model systems are employed: echinoderm, lens development, spermatogenesis, myogenesis, frog metamorphosis and carcinogenesis. In the last half of the second term R. Dengler discusses aspects of plant development. Some of the topics dealt with in this portion of the course are: comparison of developmental mechanisms in plants and animals, mammalian development, fertilization, growth and development. Lectures and laboratory work.
Prerequisite: BIOA03
Session: Winter Day
I.R. Brown and R. Dengler
BIOC24Y Plant Kingdom
Evolutionary relationships between the major groups of plants are examined through a comparison of vegetative form, reproductive structures and life histories of selected living and fossil organisms.

The first term deals with the comparative morphology of the nonvascular plants- fungi, algae, lichens and bryophytes. The second term covers the vascular plants- club mosses, spike mosses, quill worts, horsetails, ferns, gymnosperms and angiosperms. Particular emphasis is given to the algae, fungi and seed plants.
Session: Winter Day
R. Dengler

BIOB31F Invertebrate Neurobiology
An examination of lectures, seminars and laboratory work, of current topics on invertebrate neurobiology. These topics will revolve around the neural synaptic and muscular mechanisms underlying certain simple behaviours and their development especially in insects, crustaceans and molluscs.

Two one-hour lecture per week; seminars and laboratory to be arranged with class.
Prerequisite: BIOA03
Session: Winter Day
C. K. Govind

BIOC83Y Introductory Biochemistry
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 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.

The teaching method will consist of two one-hour lectures per week. The text used is: Biochemistry by L. Stryer, W. H. Freeman and Company
Prerequisite: BIOA03; CHMB05
Session: Winter Day
J. Gurd

JBCB32H Laboratory in Biochemistry
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 plus one hour of lecture each week.
Prerequisite: BIOA03; CHMB05
Corequisite: JBCB35
Session: Winter Day
J. Gurd

BIOC34Y General Vertebrate Biology
An integrative course on the vertebrates emphasizing comparative, evolutionary and physiological approaches, and centering attention on the life cycle as the evolving and dynamic unit of study. Topics will include evolution, adaptation, diversity, zoogeography, comparative functional morphology and physiology, ethology, ecology and general biology; utilization, conservation, management. Course will consist of seminars, laboratory and some lectures on selected topics.
Prerequisite: BIOA03; BIOB22; (BIOC17; BIOB11; BIOB12; BIOB27 useful but not required)
Session: Winter Day
A. Weatherley

BIOC48F Bacterial Physiology and Ecology
A lecture and laboratory course dealing with the most part with bacterial physiology and ecology. Emphasis is placed on molecular mechanisms of regulation and of adaptation to environmental factors such as temperature, salinity and availability of nutrients. The biochemical bases of nitrogen fixation, sporulation and chemotaxis are discussed. Laboratory exercises are research-oriented experiments involving the use of radioisotopes, antibiotics and gel electrophoresis.
Limited enrolment: 25
Prerequisite: BIOB02
Exclusion: (BIOC41)
Session: Winter Day
J. Silver

BIOC34S Biology of Algae
Lecture and laboratory course on the algae, the objective of providing an understanding of their role in natural aquatic and terrestrial environments. Limited enrolment: 25.
Course content: principles of algal taxonomy; biology of photosynthesis; light, nutrients, growth, mechanism of adaptation to adverse environments, osmoregulation; and heterotrophy.
Prerequisite: BIOA03
Session: (BIOC41)
Session: Winter Day
Walewajko (Sparling)

BIOC14Y 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. Supervision of the work is arranged.
Prerequisite: Satisfactory completion of fifteen course equivalents, of which at least four in the Biological Science B-level courses
Session: Winter
Members of Faculty

BIOC22Y Directed Research in Biology
An extension to BIOC14Y 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-level courses
Session: Winter
Members of Faculty

BIOC65S Advanced Genetics
A lecture and seminar course in genetics that deals in some depth with three or four topics in the area of genetics. Such topics as cytogenetics, chromosome structure, mitochondrial genetics, immunogenetics, recombination, genetic manipulation, developmental genetics, and social and ethical implications of genetics will be among those considered for discussion.
Limited enrolment: 10
Prerequisite: BIOB05Y
Session: Winter Day; alternate years starting 1984.

BIOC105 Phytoplankton- Methods and Techniques
A seminar course with laboratory and field work, on phytoplankton taxonomy and practical aspects of sampling, identification and enumeration of phytoplankton.
Principles of phytoplankton taxonomy.
Isolation of unialgal and axenic cultures of algae. Parameters for estimation of phytoplankton populations: Spatial heterogeneity, and seasonal succession of phytoplankton in (a) the Great Lakes, (b) a lake in Southern Ontario. One five hour session per week. Formal lectures are de-emphasized, while laboratory work and seminars are stressed. Reading material consists almost exclusively of papers from scientific journals. Most of these are available from the reserve room in the library.
The objectives are to gain practical experience in phytoplankton ecology and in the sampling, isolation and preparation of planktonic algae. This is an advanced and graduate level course, for students with background in physiology and ecology of algae. Dr. M. Munawar, research scientist at Canada Centre for Inland Waters, Burlington, participates in this course.
Prerequisite: BIOB15
Session: Winter Day
C. Walewajko (Sparling)

BIOC11Y Quaternary Plant Ecology
An examination of the methodology, results and implications of pollen megafossil and other analyses of Quaternary sediments from the major regions of the world. Lectures, seminars and a laboratory with field work. Given in alternate years.
The history of the plant cover of the earth during the past several millennia, as reconstructed from pollen, seed and other primarily botanical evidence, preserved in lake sediments, bogs, etc. From this factual record of vegetation change and development during and since the ice ages, environmental reconstructions will be attempted based on understanding of modern ecology.
Prerequisite: BIOB12; QUAA03 (NSC04)
Session: Winter Day
J. C. Ritchie
BIOSC08) Physiology and Biochemistry of Plant Growth and Development
A lecture and seminar course in plant growth and development. Emphasis will be placed on the mechanisms controlling growth and development. Limited enrolment: 12.

Courses Not Offered in 1983-84

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<td>BIOC09F</td>
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<td>BIOC18S</td>
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BIOSC12S: Environmental Biology of Fish Populations
Fish are among the most widely distributed and successful of vertebrates and as such offer great scope for the study of evolution, environmental physiology, ethology and ecology - which are the major themes of this course. A simplified introduction to the study of population dynamics applied to fisheries is also considered.

Prerequisite: BIOA43

BIOSC17S: Marine Biology: Nutrients and Productivity
Nutrients, phytoplankton and primary production in marine ecosystems. An advanced lecture course for students with a background in aquatic ecology.

Prerequisite: BIOB15 or BIOB12

BIOSC18S: Environmental Biology of Fish Populations

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Canadian Studies

The College offers a large number of courses taught in cooperation with many Canadian institutions. These courses are mainly in the prehistory and history of Canada, and its geography and physical environment. The College Programme in Canadian Studies encourages students to work in various disciplines and divisions of the College in order to understand the distinctive approaches of the various disciplines to the study of Canadian life and culture.

Sociologist Programme in Canadian Studies
Advisor: T. McFeet (286-3252)

This programme is specifically intended to provide an academic framework within which a student may draw upon the many course offerings that correlate to Canadian affairs within the various disciplines of the Scarborough College curriculum. Specialist studies operate on two levels: (1) a theoretical understanding of the social and political aspects of Canada's social, cultural and economic development; and (2) practical applications of various research methods to problems of a distinctly Canadian nature.

Students seeking Specialist standing in a 20 course programme must select not less than 13 core credits according to the following scheme:

- Year 1: French proficiency requirement: FREB06Y, or FREAD06 followed by FREB06Y. At least three full course credits from the following:
  - FARB01Y The Canadian Landscape History to 1670
  - FARB04Y The Arts in Canada, 1670 to present
  - POLB02Y Canadian Government and Politics

Recommended: Further basic courses in the disciplines in which the student plans to carry on advanced work.

Succeeding Years
At least one of:
- FREB36F/S French-Canadian Novel to 1945
- FREB37F/S French-Canadian Novel since 1945

Courses with Canadian Content
An asterisk indicates a course for which there is a prerequisite or corequisite. Not all B- and C-level courses are offered every year. Students should consult the discipline entries in the Calendar for specific information in those regards.

Courses dealing with the Canadian physical environment:
- GGRB01Y Geography of Resources
- GGRB04Y Landscape Interpretation

Biomesystems studies featuring Canadian data and field trips:
- NCON02Y Natural Sciences: Biological
- BIOB12Y* Fundamentals of Ecology
- BIOB15Y* Aquatic Systems
- BIOB47Y* Plant Ecology
- BIOB14F/S Ecological Methods in Canada
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<td>ANT C28Y The Prehistoric Archaeology of Canada</td>
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<td>ANT B21Y North American Background to Canadian Native Peoples</td>
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<td>ANT B27Y Archaeological Method and Theory</td>
<td>Canadian Poetry in English</td>
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<td>Modern cultures, both native and ethnic:</td>
<td>Canadian Fiction in English</td>
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<td>ANT B16S The Cultures of Modern Canada</td>
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<td>SOCS B20Y* Canadian Legal and Social Relations</td>
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<td>SOCS C42Y* Changing Family Life in Canada</td>
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<td>HIS B34Y Introduction to Canadian History</td>
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<td>HIS B42Y* French Canada: Origins to the Present</td>
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<td>HIS B44Y* Ontario History: The 19th Century</td>
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<td>HIS C44Y* Canadian Religious Traditions</td>
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<td>HIS C43Y* Selected Topics in Canadian Religious History</td>
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<td>HIS C45Y* Canadian Social, Political, and Historical Thought</td>
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<td>FAR B61Y The Canadian Landscape: 1850-1950</td>
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Chemistry

Discipline Representative: R. A. McClelland

Chemistry can be viewed as both a challenging intellectual pursuit and a powerful, practical tool for developing the resources of our contemporary society. The Chemistry Handbook, available at the Chemistry Office, outlines the teaching and research activities of the Chemistry faculty and offers a wide range of informal advice on 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 CHMA02Y which must be taken by those who wish to take further chemistry courses or who require chemistry for another science.

Completion of CHMA02Y permits students to take any of the B-level courses in Chemistry.

These are divided according to the following subdisciplines. Inorganic Chemistry (CHMB01Y), Analytical Chemistry (CHMB02Y), Organic Chemistry (CHMB03Y) and Physical Chemistry (CHMB04Y).

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

To Enter Complete Scattered Courses

420 CHMA02Y, CHMB03Y, CHMC01Y
450 CHMA02Y, CHMB01Y, CHMB02Y
440 (except 447) CHMA02Y, CHMB03Y, CHMC03Y

While courses in Physics do not appear among the prerequisites or corequisites of most courses in Chemistry, students are urged to take PHYA03Y (A02Y) early in their programs. Thus, the suggested first-year program in Chemistry includes CHMA02Y, MATA55Y or MATA26Y and PHYA03Y (PHYA02).

Completion of a Specialist or Major Programme in Chemistry can lead directly to a wide spectrum 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. These programmes are described below.

Specialist Programme in Chemistry

Supervisor: A. Walker (284-3319)

This is the most general of the Specialist Programmes and provides the student with a firm basis in each of the chemistry subdisciplines. Students should complete the following fifteen required courses:

First year:

CHMA02Y General Chemistry
MATA26Y Calculus

Second and Third years:

CHMB03Y Inorganic Chemistry I
CHMB02Y Analytical Chemistry
CHMB03Y Physical Chemistry I
CHMB05Y Organic Chemistry
CHMC01Y Inorganic Chemistry II
CHMC02Y Physical Chemistry II
CHMC03Y Organic Chemistry II
ATB41F Techniques of the Calculus of Several Variables I
ATB42F Techniques of the Calculus of Several Variables II
ATB50F Analysis I
ATB55S Analysis II

Students should note that if they are going to take ATB50F and ATB55S they must take MATA40F and MATA455S among their first ten courses.

In addition, four more full-course equivalents in Chemistry, including at least three full-course equivalents selected from the CHMC40-50 series and the 400-level courses at the St. George campus. At least one full-course equivalent must be taken at St. George from the 400 level.

Note: In addition to the courses noted above an additional Biology course is recommended:

MATB41S, MATB17Y, BI0B02Y, (BI0B41Y).

Specialist Programme in Chemistry and Biochemistry

Supervisor: A. Walker (284-3319)

This programme places greater emphasis on the biological aspects of chemistry and is offered for students who are primarily interested in chemistry but who also want to study the chemistry of living systems.

Students should complete the following fifteen courses:

First year:

CHMA02Y General Chemistry
BI0B03Y Introductory Biology
MATA26Y Calculus
or
MATA55Y Calculus with Analysis
PHYA03Y Physics for the Physical and Life Sciences

Second and Third years:

CHMB03Y Inorganic Chemistry I
CHMB02Y Analytical Chemistry
CHMB04Y Physical Chemistry I
CHMB05Y Organic Chemistry I
CHMC01Y Introductory Biochemistry
CHMB03Y Physical Chemistry II
CHMC02Y Laboratory in Biochemistry
CHMB03Y Organic Chemistry II
or
CHMC01Y Introductory Chemistry II

CHMC02Y Physical Chemistry II
CHMC03Y Organic Chemistry II
MATB41F Techniques of the Calculus of Several Variables I
or
ATB50F Analysis I
MATB42S Techniques of the Calculus of Several Variables II
or
ATB55S Analysis II

In addition, CHMC447S (St. George) or BCH424S (St. George), one additional BCH400 series half-course (St. George) and one-half additional CHM full-course equivalents selected from the C-level or 300 - 400 courses (St. George), or 400 series BCH courses.

Note: In addition to the courses noted above an additional Biology course is recommended:

BI0B19S, BI0B17Y, BI0B02Y, (BI0B41Y).
Specialist Programme in Chemistry Physics
Supervisor: R. Poleti (284-3318)
This programme offers students interested in both Chemistry and Physics the opportunity to combine their studies in the Specialist Programme. For the first two years the course of study also satisfies the Chemistry Specialist Programme requirements. Students should complete the following fifteen courses. They include two alternative mathematics sequences. One sequence provides a rigorous mathematical development; the alternative sequence emphasizes technique rather than rigour. Students starting in the MAT26Y sequence are urged to include MAT240F and MAT245 at some stage in their programme.
First year:
CHMA2Y General Chemistry
PHYA3Y Physics for the Physical and Life Sciences
PHYA2Y Calculus
or
MAT26Y Calculus with Analysis
Second and Third years:
CHMB0Y Inorganic Chemistry I
CHMB0Y Organic Chemistry I
CHMB0Y Physical Chemistry I
CHMB0Y Inorganic Chemistry II
CHMC0Y Organic Chemistry II
CHMC0Y Physical Chemistry II
CHMB0Y Calculus of Several Variables
CHMB0Y Techniques of the Calculus of Several Variables
or
MATB42S Techniques of the Calculus of Several Variables II
and
MATB55S Analysis I
and
MATB55S Analysis II
CHMB0Y Physical Chemistry II
PHYB01S Electricity and Magnetism I
PHYB03F Introductory Electronics
PHYB04F Waves
PHYB08H Intermediate Physics Laboratory
MATC5F Differential Equations
and
JMPA3S Advanced Classical Mechanics
Fourth year: Four full-course equivalents must be taken, including a CHMA40 series course on the St. George Campus, at least one full-course equivalent from PHCB01F, PHCB03F, PHCB04S, PHCB05H, PHCB06F or a 300 series course on the St. George Campus and other two courses in either third/fourth year Chemistry or third/fourth year Physics/Mathematics.
Students are urged to consult with the supervisor early in the programme.

Major Programme in Chemistry
Supervisor: A.J. Kraege (284-3336)
This is the most general Major Programme offered. It a wide selection of options, it offers the possibility of obtaining an introduction to all of the subdisciplines of chemistry.
Students should complete the following eight courses:
First year:
CHMA2Y General Chemistry
MAT26Y Calculus
or
MAT27Y Techniques of Calculus
or
MAT26Y Calculus with Analysis
PHYA3Y Physics for the Physical and Life Sciences
Second and Third years:
CHMB0Y Inorganic Chemistry I
CHMB0Y Organic Chemistry I
CHMB0Y Physical Chemistry I
CHMB0Y Inorganic Chemistry II
CHMC0Y Organic Chemistry II
CHMC0Y Physical Chemistry II
CHMB0Y Calculus of Several Variables
CHMB0Y Techniques of the Calculus of Several Variables
or
MATB42S Techniques of the Calculus of Several Variables II
and
MATB55S Analysis I
and
MATB55S Analysis II
CHMB0Y Physical Chemistry II
PHYB01S Electricity and Magnetism I
PHYB03F Introductory Electronics
PHYB04F Waves
PHYB08H Intermediate Physics Laboratory
MATC5F Differential Equations
and
JMPA3S Advanced Classical Mechanics
Fourth year: Four full-course equivalents must be taken, including a CHMA40 series course on the St. George Campus, at least one full-course equivalent from PHCB01F, PHCB03F, PHCB04S, PHCB05H, PHCB06F or a 300 series course on the St. George Campus and other two courses in either third/fourth year Chemistry or third/fourth year Physics/Mathematics.
Students are urged to consult with the supervisor early in the programme.

Programme in Biochemistry
Supervisor: A.J. Kraege (284-3336)
This programme places a greater emphasis on biological aspects of chemistry than does the Major Chemistry Major Programme. It is intended for students who are primarily interested in biology but also want to study the chemistry supporting systems.
Students should complete the following eight courses:
First year:
CHMA2Y General Chemistry
MAT26Y Calculus
CHMB0Y Inorganic Chemistry I
CHMB0Y Organic Chemistry I
CHMB0Y Physical Chemistry I
CHMB0Y Inorganic Chemistry II
CHMB0Y Organic Chemistry II
CHMB0Y Physical Chemistry II
CHMB0Y Calculus of Several Variables
CHMB0Y Techniques of the Calculus of Several Variables
or
MATB42S Techniques of the Calculus of Several Variables II
and
MATB55S Analysis I
and
MATB55S Analysis II
CHMB0Y Physical Chemistry II
PHYB01S Electricity and Magnetism I
PHYB03F Introductory Electronics
PHYB04F Waves
PHYB08H Intermediate Physics Laboratory
MATC5F Differential Equations
and
JMPA3S Advanced Classical Mechanics
Fourth year: Four full-course equivalents must be taken, including a CHMA40 series course on the St. George Campus, at least one full-course equivalent from PHCB01F, PHCB03F, PHCB04S, PHCB05H, PHCB06F or a 300 series course on the St. George Campus and other two courses in either third/fourth year Chemistry or third/fourth year Physics/Mathematics.
Students are urged to consult with the supervisor early in the programme.

Prerequisite: Grade 13 Chemistry (or Grade 12 Chemistry and permission of instructor). Grade 13 Functions and Relations
Concorso: (MATA22) or MATA26Y or MATA27 or MATA55
Session: Winter Day

CHMB02Y Inorganic Chemistry I
Atomic and molecular structure, including energy levels, bonding, electron configurations, lattice energies, heats of formation and hydration. Oxidation state diagrams. Chemistry of hydrides, halogens and selected topics in main group elements.
The further development of the ideas of structure and bonding introduced in CHMA02Y. The nature of bonding in covalent, ionic and coordination compounds. Thermodynamic and kinetic considerations in compound formation. The use of these concepts to rationalize the descriptive chemistry of the periodic table with special emphasis on the main group elements. Two lectures and one additional period per week to be used for supplementary or remedial work as required.
Prerequisite: CHMA02
Session: Winter Day
R.M. Morris

CHMB02Y Analytical Chemistry
Introduction to qualitative and quantitative analysis including gravimetric and volumetric analysis, electro-chemical and spectrophotometric methods of analysis, separatory techniques.
To introduce the principles and methods of chemical analysis and to provide practical experience in 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 separatory techniques. One hour of lectures and six hours of laboratory per week.
Exclusion: CHMB03
Prerequisite: CHMA02
Session: Winter Day
K.A. Henderson

Other recommended courses: CHMB01
CHMB303Y Physical Chemistry I
Introduction to Physical Chemistry, including thermodynamics, electrochemistry and colloid chemistry, quantum mechanics, spectroscopy and chemical kinetics.

The course starts with a thermodynamic description of chemical behaviour. The basic laws of thermodynamics and their applications to a wide variety of contemporary problems including spontaneous processes, chemical equilibria, phase equilibria, electrochemistry and colloid chemistry are emphasized.

The kinetic theory of gases provides the major emphasis for the 2nd quarter. This is followed by an introduction to the quantum mechanical principles which govern the internal structure of atoms and molecules. The term ends with a treatment of chemical kinetics.

The text is "Physical Chemistry" by P. W. Atkins. Three lectures a week and occasional tutorials. Exclusion: PHYB09
Prerequisite: CHMA02; MATA26 or MATA55; PHYA03(A02)
Corequisite: MATH41 and MATH42 are strongly recommended but not required. See CHMC02 Physical Chemistry II, however.
Session: Winter Day

CHMB35Y Organic Chemistry I
The chemistry of the principal functional groups encountered in aliphatic and aromatic compounds, interpreted in terms of reactivity, stereochemistry and reaction mechanisms. An introduction to organic spectroscopy will also be given.

The fundamentals of organic chemistry, including aliphatic and aromatic chemistry and an introduction to the chemistry of biologically important molecules such as proteins and carbohydrates. Two lectures per week and a four-hour laboratory every second week. A tutor will be available for consultation in the Chemistry Learning and Resource Centre.
Prerequisite: CHMA02
Session: Winter Day
R. McClelland

JBCB35Y Introductory Biochemistry
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; and synthesis of nucleic acids; biosynthesis of proteins. Regulation and integration of metabolic pathways will be discussed.

Two one-hour lectures per week. The text used is "Biochemistry" by L. Stryer, W. H. Freeman & Co. Publishers. Prerequisite: BIOA03; CHMB05 Session: Winter Day J. Gurd

JBCB36H Laboratory in Biochemistry
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.
Three hours of laboratory plus one hour of lecture each week.
Prerequisite: BIOA03; CHMB05 Corequisite: JBCB35 Session: Winter Day J. Gurd

CHMC01Y Inorganic Chemistry II
A study of transition metal chemistry including energy level diagrams: valence bond, crystal field and molecular orbital theories of bonding; spectra of transition metal complexes; structure and coordination numbers; isomerism; inorganic reaction kinetics and organometallic chemistry.

The objective of this course is to understand the structure, bonding, spectra and reactions of transition metal complexes. Two hours of lecture per week, seven hours of laboratory per week to be taken either in the Fall or Spring term. The required text is "Inorganic Chemistry 2nd edition" by J. E. Huheey.
Prerequisite: CHMB01, CHMB02 (or CHMB04)
Corequisite: CHMB06 (if only CHMB04 obtained)
Session: Lectures: Winter Day Laboratory: Fall Term or Spring Term - One Day A. Walker

CHMC02Y Physical Chemistry II
Statistical mechanics and its application to the atomic and molecular structure, and spectroscopy. Basic principles of classical and statistical thermodynamics, theory of chemical kinetics and thermodynamics, chemistry of modern methods.
The laboratory associated with this course will involve the study of a number of techniques used in advanced experimental
work.

The first half of the course emphasizes quantum mechanics and the various techniques for the determination of energy levels in isolated atoms and molecules. The electronic and molecular structure of molecules is examined.

High atomic and molecular spectroscopy, molecular forces and modes of energy transfer between molecules ultimately lead into a study of classical and quantum statistical mechanics through which we interpret the behavior of microscopic systems. Finally, the basis of modern reaction dynamics will be introduced.

Prerequisite: CHMB03; MATH41 and MATH42; or MATH40 and MATH45
Session: Lectures: Winter Day Laboratory: Spring Term - One Day

CHMC03Y Organic Chemistry II
A depth treatment of organic reactions and their applications, stereochemistry and conformational analysis, electronic effects, organometallic compounds, and the chemistry of naturally occurring molecules such as enamides, steroids and carbohydrates. This course provides further experience in organic chemistry to students who have completed one course in the subject. The laboratory experiments are designed to complement the topics covered in lectures, with an emphasis on modern techniques and the use of modern instrumental techniques and newer synthetic methods.
Two lectures and one four hour laboratory per week.
Prerequisite: CHMB05
Session: Winter Day

CHMC04Y Library Thesis
A report on a selected current topic in chemistry based on literature research and carried out under the direction of one of the chemistry staff. Approximately 260 hours of work are expected.

The objective is to gain a thorough understanding of a topic of current interest and to prepare a comprehensive and critical report on this subject. To develop familiarity with the techniques of searching the chemical literature. The topic will be selected in consultation with a member of the chemistry staff. Progress will be monitored during periodic consultations with the staff member.
Exclusion: CHMC47
Prerequisite: Permission of instructor
Other Recommended Courses: Normally only for individuals who have completed fifteen full-course equivalents including at least two C-level Chemistry courses, and who are pursuing one of the Chemistry Programmes.
Session: Summer Day, Winter Day Members of the Chemistry Faculty

CHMC05Y Introduction to Research
Participation in a chemical research project under the direction of a member of the Chemistry staff, requiring approximately 260 hours of effort.

The objective is to develop familiarity with some of the methods of modern chemical research. The particular research problem to be pursued will be determined by discussions between the student and the faculty director of the research.
Prerequisite: Permission of instructor
Corequisite: One of the advanced laboratory courses at St. George (CHM435F or CHM448F) (except for students undertaking a project in physical chemistry)
Other Recommended Courses: Normally only for students following one of the Chemistry Programmes.
Session: Summer Day, Winter Day Members of the Chemistry Faculty
CHMC47F/S-H Library Thesis

Similar to CHMC45 but representing 130 hours of work.

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

Exclusion: CHMC45
Prerequisite: Permission of instructor

Other Recommended Courses: Normally only for individuals who have completed fifteen full-course equivalents and including at least two C-level chemistry courses, and who are pursuing one of the Chemistry Programmes.

Session: Summer Day, Winter Day
Members of the Chemistry Faculty

CHMC48S Special Topics in Inorganic Chemistry
A selection of topics in inorganic chemistry. Recent developments are emphasized. The content of the course varies from year to year, so students should consult with the faculty members involved as to the specific areas to be covered in a given year.

This course provides an introduction to current research areas and their theoretical and practical importance in inorganic chemistry. The emphasis will be on inorganic, but a good background in organic and physical chemistry is useful. Two lectures per week. a. 90 Prerequisite: CHMC01

Session: Winter Day
R H. Morris, A. Walker d110

CHMC49S Special Topics in Organic Chemistry
A selection of topics in organic chemistry. Recent developments are emphasized. The content of the course varies from year to year, so students should consult with the faculty members involved as to the specific areas to be covered in a given year.

Prerequisite: CHMC03
Session: Winter Day

CHMC50S Special Topics in Physical Chemistry
A selection of topics in physical chemistry in which recent developments are emphasized. The content of the course varies from year to year. Examples of topics recently treated include quantum chemistry and the theories of elementary chemical reactions. The course structure is two lectures per week.

Corequisite: CHMC02
Session: Winter Day

Courses not offered in 1983-84

CHMC40F Kinetics and Mechanism of Chemical Reactions

Corequisite: CHMC01; CHMC02; CHMC03

CHMC41S Structure and Synthesis of Chemical Compounds

Corequisite: CHMC01; CHMC02;

CHMC51S Special Topics in Synthetic Organic Chemistry

Corequisite: CHMC03

CHMC52S Special Topics in Organometallic Chemistry and Catalysis

Corequisite: CHMC01

Major Programme in Classical Studies

Major Programme in Classical Studies
Supervisor: J. Corbett (284-3182)

The Major Programme in Classical Studies requires students to complete eight full-course equivalents to be selected as follows:

- CLAA01Y Classical Civilization
- HUMA11Y Greek and Roman Mythology
- CLAB01Y Greek and Roman Epic
- CLAE01Y Latin and Greek Drama
- CLAB02Y Greek History from the Bronze Age to the Death of Alexander
- GRH01Y Greek History from the Bronze Age to the Death of Alexander
- GRH02Y Greek and Roman History from the Death of Alexander to the Gracchi
- GRH03Y Roman History from the Gracchi to Nero

One of the following full-course equivalents:

- FARA10F/S, B20F, B20S, B20Y, B20Y
- FHLB40F, B41S, B42F, B43S

- Excluding GRH01Y (and B20Y), except with permission of Programs Supervisor

Students who wish to include Latin or Greek as a component in the Language and Literature Programme must complete seven full-course equivalents as follows:

- Four full-course equivalents in Latin or four full-course equivalents in Greek
- Three additional full-course equivalents from:

See also the Specialist Programme in Language and Literature.
Classics

CLAA01Y Classical Civilization
An introduction to the Greco-Roman World: the achievements of the Greeks and Romans in literature, philosophy, science and government. These achievements will be set in an historical framework to enable the evolution of ideas to be traced. The course will not merely be a survey course. Provision has been made as well for study in greater depth in carefully selected areas, with readings, in translation, from the classical authors.
The class will meet three times per week for lecture presentations, but with a seminar every other week in the third hour.
Session: Winter Day
A. Boddington and Staff

CLAB21Y Greek and Roman Religion
A study of religion in the Greek and Roman world.
The course will explore the origins of Greek and Roman religion, the importance of Homer and Hesiod, city cults, popular religion, the spread of eastern religions, the role of religion as a political instrument, and the introduction of Christianity.
One two-hour lecture a week, with opportunities for discussion.
Prerequisite: HUMA11 or CLAA01Y strongly recommended.
Session: Winter Evening
M.E. Irwin

Greek and Roman History

GRHB01Y Greek History from the Bronze Age to the Death of Alexander
An introduction to political, economic, social, and cultural aspects of Greek history. The period will be studied, as far as possible, from the Greek authors (in translation) and attention will be given to the discoveries and methods of archaeology. The course should be of interest to students of Classics, History, Archaeology, Anthropology and Political Science.
Topics will include: the Bronze Age of Greece and Minoan Crete, with some consideration of why and how those cultures rose and fell; the cultural and artistic "Renaissance" of the Greek world; political developments, with special reference to the nature and development of Athenian Democracy and the strange society of Sparta; the Athenian Empire and its relationship to Athenian Democracy; the rise of Macedonia and the conquests of Alexander. To consider how the Greeks viewed their own history, we shall study the Persian Wars as seen through the eyes of Herodotus, and the Hellenistic Age as interpreted by Thucydides; and at all times we shall attempt to show how the Greeks' compliment of trying to see things as they really were and not as we imagine them.
Session: Winter Evening
A. Boddington

GRHB03Y Roman History from the Gracchi to Nero
A study of the Roman Republic as a social and political organization, and as a "world power", the collapse of the republic, the rise of the principate, and the political and military organization of the new political system. The course will emphasize the role of the primary sources, read in translation.
Study: Students will be introduced to the main issues, problems, and trends in a critical period of world history. Topics will include most or all of the following: the period of the Gracchi and their associates, the reaction of the Senate to their proposals, the political and social consequences of their policies, the role of the Senate in the formation of the Roman principate, and the role of the Senate in the transition to the principate.
One lecture per week, with opportunities for discussion.
Prerequisite: Any course in Greek or Latin language or literature.
Session: Winter Evening
A. Boddington

GRKA01Y Introductory Greek
A course for students who wish to acquire a reading knowledge of ancient Greek, largely through reading Greek literature of the 5th century B.C.
Prerequisite: Grade 12 Greek or GRKA01

Session: Winter Day
M. E. Irwin

GRKA05Y Introduction to Greek Authors
A reading of simple Greek texts combined with a study of the language and the grammar necessary for reading Greek literature.
Prerequisite: Grade 12 Greek or GRKA01

Session: Winter Day
A. Boddington

GRKM18Y Plato: Apology
A study of Plato's "Apology", Plato's account of Socrates' defense against the charges of religious nonconformity and corrupting the young. The text will be read in Greek. Students will be expected to participate actively in translating and discussing passages of the text.
Prerequisite: GRKA10

Session: Winter Day
J. Corbett

GRKin30Y Intermediate Modern Greek
A study of the modern Greek language, primarily written form, with the goal of preparing the student for the reading of Modern Greek literature.
Prerequisite: GRK150 (St. George) unless the student is a native speaker of the language.
Session: Winter Day
Co-ordinator: E.M. Irwin

GRKB32Y Images of Modern Greece: 1936 to the Present
An examination of the social, political and cultural development of modern Greece in the last quarter-century.
This chronological study of one of the most vital moments in modern Greek history will focus first on the time of the Metaxas dictatorship, World War II and the civil war; then on the "boom" years from 1960 to 1976, and finally on the period from the establishment of the military junta to the present. Analysis of social, economic and political phenomena will be complemented by a detailed study of cultural expression in such diverse fields as literature, music, theatre, cinema and folklore. Our field of inquiry will include selections from the works of poets, novelists and dramatists such as Sfakianakis, Efthimis, Vrettos, Tachtsis and Kehaidis, of Karolos Koun and the Art Theatre; of semantic composers Theodorakis and Hadjidakis, and their heirs; and of the folklorist Domna Samiou. The final stage of the course will stress developments of the last decade.
Lectures and seminar discussion. Lectures will be given in Greek.
Session: Winter Day
G. Papadatos

GRKB30F-434F
GRKB33S-839S
GRKB40Y Supervised Reading
A course for students who wish to enroll in any of the above courses. They should then contact the co-ordinator and discuss what they want to read and with whom. (This will depend in part on time availability.) The student will meet weekly with the tutor, in the exact arrangements depending on the difficulty of the chosen text and the level of the student's ability. Problems in the text will be discussed as well as the literary qualities and cultural context of the work being studied.
Prerequisite: GRKB01 or demonstrated competence in reading classical Greek
Session: Winter Day
Co-ordinator: E.M. Irwin
Latin

LAT 1061Y Introductory Latin
An introduction to the essentials of the Latin language. Although the emphasis will be on language, selected texts will be read to introduce the student to Latin literature.

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 helping him see the language in its cultural and historical context, and 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.

The text is F. L. Moreland and R. M. Fleischer, Latin. An Intensive Course. Exclusion: Grade 13 Latin
Session: Winter Day
I.R. McDonald

LAT 1060F Introduction to Latin Authors
Rapid reading of simple Latin texts, both prose and verse, together with a survey of Roman literature and a consolidation of grammar.

This course serves as an introduction to university-level Latin studies for students with Grade 13 Latin and as a stepping stone to the reading of Latin authors for those who have begun the study of Latin in the College.

Texts to be read will be selected from a wide range of styles and periods to give the student a good general view of the scope and variety of Latin literature.

Prerequisite: LAT 10 or Grade 13 Latin
Session: Winter Day
I.R. McDonald

LAT 1061S Catullus
A selection of the works of Catullus. The influences which affect Catullus, and his contribution to Latin poetry will be considered.

The material studied will be primarily the love poetry of Catullus but some of the invective works and one of the "long poems" will also be examined. After some introductory lectures most of the classes will be devoted to translating and studying individual poems in the light of critical literature. Students will be expected to participate in these classes. The text used will be the edition of Kenneth Quinn (Macmillan, 1970).

Prerequisite: LAT 10
Session: Winter Day
J. Warden

LAT 206F Latin Authors II
Reading and analysis of Latin texts, prose or verse, with emphasis on appreciation of language and style, and the writer's contribution to the development of the genre.

Texts to be used will be selected and analyzed in consultation with class members. Prerequisite: LAT 1061S
Session: Winter Day
J. Warden

LAT 2063F-34F
LAT 2063S-39S
LAT 2060Y Supervised Reading
Students who wish to take Latin Supervised Reading courses should enrol in any of the above courses (F, S, Y 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 own, and to meet with his tutor once a week, normally for a two-hour period; exact arrangements will depend on the nature of the text and the 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.

Prerequisite: LAT 1061S
Session: Winter Day
Co-ordinator: I.R. McDonald

LAT 2061F-C 02S Independent Studies
These courses are designed to widen students' knowledge of Latin literature beyond the works and authors which have been studied in earlier courses.

A student will be expected to read considerably more than is required in the Supervised Reading courses. The reading may be confined to one author or group of authors of a particular genre. A student who registers for both C01F and C02S may be permitted to present a major essay, on a topic approved by the faculty in Classics, as the work required for C02S. Students will meet regularly throughout the term with a member of the faculty.

In B. A. a student interested in Independent Studies should meet with the co-ordinator before enrolling, preferably in the Fall of the preceding year.

Prerequisite: At least two of LAT 2061F, LAT 2062F, LAT 2063S-39S, permission of instructor.
Session: Winter Day
Co-ordinator: I.R. McDonald

LAT 206Y Greek and Roman Epic
Greek and Roman Epic

LAT 2062Y Greek and Roman Tragedy
Christainity in the Greco-Roman World

LAT 2063Y Greek and Roman History from the Death of Alexander to Trajan

LAT 2064Y Ancient Historiography

LAT 2065Y Studies in Greek History II
Prerequisite: GRYH 200 or any related GPH course.

LAT 2066Y Studies in Roman History: Pompeii

LAT 2067Y Studies in Roman History: Roman Britain
Prerequisite: GRYH 200 or any other GPH course

LAT 2068Y Studies in Roman History: Rome's Enemies
Prerequisite: GRYH 200 or any related GPH course.

Assistant Chairman: H. Babik

Commerce courses are designed both for those students who wish to take one or more Commerce courses to supplement their studies in other areas. Courses in Commerce should help students to develop the analytical skills needed to diagnose and solve problems in business and government.

Students may take Commerce courses as part of a three or four year degree program. B. Comm. degree and may, if they wish, work towards completing the Specialist Program in Commerce and Economics or the Major Program in Commerce. Graduates of a fifteen or twenty course degree program may be eligible for admission to graduate study in business or may seek employment in accounting practice or pursue other industrial, commercial or governmental careers.

The College does not offer the Bachelor of Commerce (B. Comm.) degree. Students who wish to obtain the B. Comm. must either enter or transfer to another college of the University (at the St. George or Erindale campuses). Because of differences in course and degree requirements, such transfers should take place as early as possible in the student's career. Since many Commerce courses at the St. George Campus are subject to limits on enrolment, 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 Schools for study toward the Master of Business Administration (MBA) degree is open to all qualified graduates (fifteen or twenty course degrees) regardless of the subject or disciplines studied at the undergraduate level. Students contemplating graduate study should be advised to include some courses in Commerce 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 enrollment limits on many Commerce courses and on admission to Programmes. Students who delay in the Spring of the preceding year in applying for Programme admission and in ballot for fall-winter courses may find many limited enrolment courses have been filled. Students are advised to check with the Supervisor of
Studies about deadlines for Programme application and course booking.

Prerequisites: Prerequisites will be strictly enforced for all Commerce courses. Students who knowingly or unwittingly register for courses for which they do not have the necessary prerequisites will be denied access to those courses.

In view of the many academic and career options available in the Commerce area, students are encouraged to seek the advice of the Supervisor.

Specialist Programme in Commerce

Supervisor: T.B.A.

The Specialist Programme in Commerce is designed to provide students with a foundation for a managerial career in commerce, industry or government or for further study in such fields as accounting, marketing, organizational behaviour, law and management. The Programme allows students to pursue some degree of concentration in a specific aspect of Commerce studies such as accounting, finance or marketing.

The Programme requires the completion of the following minimum requirements as part of a twenty-credit degree:

1. Eight full-course equivalents in Commerce including COMA01, COMB01, JCSB27, JCEB73, JCEC02, ECOA01, ECOB03, ECOB07 and (ECOB11 and ECOB12) or (STAB52 and STAB57)
2. MATA27 or (MATA26 and MATB41/42) or
   (MATB55 and MATB50/55). (see Note B)
3. Four additional full-course equivalents from courses other than COM, ECO and JCE.

One full-course equivalent in Computer Science (SCSA06 and SCSCA06) or (SCSA06 and SCSCA68). The four additional full-course equivalents must be counted as either Commerce courses or Economics courses. If Commerce courses are used to meet the Economics requirements, the four Commerce courses must be submitted in the Commerce requirements.

Students who have not taken any of ECOB11 prior to the summer 1982 semester will be required to take MATB27 regardless of when they entered the programme.

C. Students who have completed ECOB11 prior to the summer 1983 session are not required to take ECOB12

Major Programme in Commerce

Supervisor: T.B.A.

Note: Beginning in 1983-84, registration in this programme will be limited. Ninety students will be admitted to the second year of the Programme and selection will be based on grades in COMA01Y, ECOA01Y and the applicant's two best other course grades.

Major Programme in Commerce is designed to provide the student with an introduction to the business and the professional to graduate or professional studies or as a complement to undergraduate studies in related areas.

The Programme requires completion of eight full-course equivalents including:

Five full-course equivalents in COM or JCE courses including COMA01 and COMB01 (see Note D)
Two full-course equivalents in ECO courses including ECOA01

JCSB27

Note D: Students may elect to take STAB52 and STAB57 in place of ECOB11 and ECOB12.
JCEB72F Analysis for Decision Making I
A course in the analytical formulation and solution of decision problems. Linear decision models, and especially linear programming, are the tools primarily discussed and employed. Prerequisite: CSCA56 or CSCA58, MAT40 or MAT22 or MAT24. Limited enrolment: 60. Credit: 3.

JCEB73S Analysis for Decision Making II
A continuation of JCEB72F with a less emphasis on deterministic linear models. Course content will be determined by the instructor and will usually include several of the following: decision making under uncertainty, inventory theory, simulation, non-linear programming, allocation of risk-bearing. Prerequisite: JCEB72.

Session: Winter Day

COMC05S Introduction to Marketing Management
A pragmatic case and readings oriented approach to develop the analytical skills required of marketing managers. The course is designed to help improve skills in analyzing marketing situations, identifying market opportunities, developing marketing strategies, making concise recommendations, and defending these recommendations. Limited enrolment: 60. Credit: 3.

Prerequisite: COMC01.

Session: Winter Day

COMC06S Product Management
This course is designed to give students a focus on the marketing problems associated with the management of a product or product line in the consumer packaged goods industry. The tactical and operational problems associated with the design of new offerings and management of current offerings within the strategic framework of an overall corporate marketing strategy provide the theme of the course. Limited enrolment: 40.

Prerequisite: COMC05.

Session: Winter Day

COMC07S Market Research
The course is designed to introduce students to a number of experimental and survey techniques being used in market research. Both theoretical and technical considerations will be stressed. Limited enrolment: 40.

Prerequisite: COMC05, ECBC11 or PSYB07 or SOCB06 or STAB52 and STAB57.

Session: Winter Day

MC110F Management Control Systems
Course objective is to develop a thorough understanding of planning and control systems in organizations. With an emphasis on behavioral implications. Limited enrolment: 60.

Prerequisite: COMC01, JESB27.

Session: Winter Evening

MC151Y Income Tax
Examination of the broad principles of federal income tax and of the detailed provisions involved in the computation of business expenses. Limited enrolment: 60.

Prerequisite: Completion of at least ten courses including COMA01 and ECOA01.

Session: Winter Evening

EN

MC25F Organizational Design
Course reviews design alternatives, involving changes in strategies, structures, environments, and people for both business and non-business complex organizations. Limited enrolment: 60.

Prerequisite: JESB27.

Session: Winter Day

MC45F Comparative Organizational Behavior
This course studies the impact of organizational theories on different environments, discussing other questions, differences between them. The course may also deal with societal issues in reference to quality of work life. Limited enrolment: 60.

Prerequisite: JESB27.

Session: Winter Day

MC60Y The Legal Environment of Business
Intensive examination of those aspects of the law that most directly affect the operations of a business. Limited enrolment: 60.

Prerequisite: Completion of at least ten courses including COMA01 and ECOA01.

Session: Winter Day

JCEC70S Advanced Corporate Finance
This course focuses on major issues in corporate financial management with reference to company valuation for financial decisions and capital structure issues. Limited enrolment: 60.

Prerequisite: JCEC02.

Session: Winter Day

K. Ho

JCEC77S Investments
This course covers major investment problems, in particular the factors affecting term structure, default risk, and valuation of fixed income securities. Limited enrolment: 60.

Prerequisite: JCEC02.

Session: Winter Evening

H. Babna
COMC80F/S/H  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 mem-
ber is available for supervision and the course would only be available to students whose Com-
merce performance has been well above average. Students interested in this course should con-
sult with the Supervisor of Studies for Commerce in advance.

Prerequisite: Permission of Instructor
Session: Summer Day, Summer Evening, Winter Day, Winter Evening

COURSE CONTENT

Computer Science

Discipline Representative: W. Enright (284-3340)
Computer Science is the study of the use of computer to process information. The form of
this information may vary widely, from the businessman’s records, to the scientist’s experi-
mental results, to the linguist’s texts. One of the fundamental concepts in computer science is
the algorithm — a list of instructions that specify the steps required to solve a problem. Computer
science is concerned with producing correct, efficient, and maintainable algorithms for a wide
variety of applications. Closely related is the development of tools to foster these goals: pro-
gramming languages for expressing algorithms; operating systems to manage the resources of a
computer; and various mathematical and statistical techniques to study the correctness and
efficiency of algorithms. Theoretical computer science is concerned with inherent diff-
culties of problems that make them intractable by computers. Numerical analysis, data
management systems, and artificial intelligence are concerned with the applications of com-
puters to specific problem areas.

The Specialist Programme in Computer Science and in Computer Science for Data
Management prepare a student for graduate study and for a professional position in the com-
puter field. In the Specialist Programme for Data Management there is an emphasis on informa-
tion system development, an area of increasing importance to business, industry and
government.

The Major Programme in Computer Science provides an introduction to some of the main
areas of computer science and also provides preparation for a career in the computer field.
It is a suitable programme for a student interested in applying computer science techniques to
problems from another research area or for a student interested in a career in secondary
school teaching.

Students in either the Specialist Programme in Computer Science or the Major Programme with
an interest in electronics should consider the sequence of physics courses PHYA03Y, PHYB03Y,
PHYB03F, PHYB03S. Students who wish to study computing primarily to use computers in their
own specialties should begin with CSCA66S and CSCA66B.

Specialist Programme in Computer Science
Supervisor: W. Enright (284-3340)
Note: Registration in this programme is limited. Twenty students will be admitted annually to the
second year of the programme. Selection will be based on grades in first year courses in Com-
puter Science and Mathematics. There are eleven courses required for the Specialist Programme in
Computer Science. Note that the courses need not be taken in exactly the indicated order, but if an alternate ordering is
adopted, care must be taken to ensure that prerequisites are satisfied and other conflicts avoided.

First year:
CSCA58F, CSCA68S, MATA26 or MATA55,
MATA40F, MATA45S

Second year:
CSCB28S, CSCB58F, CSCB58S, or CSCB73F,
(MATB14F and MATB42S) or (MATB50F and
MATB55S)

Third year:
CSCC78F, JMC551S, MATB44F, STAB52F,
STAB57S, MATC51F or MATC60F or MATB48S

Third or fourth year:
Two one-half full-course equivalents to be chosen from the following options: Any two of
CSCC64S, 438F, 448S, 465F, 478S; any one of
CSCA41S, 448S, 451F, and any two of CSCB65S,
C44F or C68F, 340S, 454F, 444S, 458S, 468F,
474S, 484F.
(Note that only CSCB68F, CSCB64S and
CSCB65S are available at Scarborough; the
remaining courses must be completed at the St.
George campus.)

In completing the Programme a student is strongly encouraged not to include any Com-
puter Science courses other than those required above. It is also desirable to have a sequence of
approximately four related half-courses in a sub-
ject area in which computers can be usefully
applied.

Major Programme in Computer Science
Supervisor: W. Enright
Note: Registration in this Programme is limited. Thirty students will be admitted annually to the
Second Year of the Programme. Selection will be based on grades in first year courses in Com-
puter Science and Mathematics. Seven and one-half full-course equivalents are required. The courses need not be taken in the
order given, but care must be taken to ensure that prerequisites are satisfied and conflicts avoided.

Specialist Programme in Computer Science for Data
Management
Supervisor: W. Enright
Note: Registration in this Programme is limited. Twenty students will be admitted annually to the
Second Year of the Programme. Selection will be based on grades in first year courses in Com-
puter Science and Mathematics. There are thirteen and one-half courses required for the
Specialist Programme in Computer Science for Data Management. The courses may be taken in a
different order, but care must be taken to ensure that prerequisites are satisfied and conflicts avoided.

First year:
CSCA58F, CSCA68S, MATA26 or MATA57,
MATA40F, COMA01, EC0A01

Second year:
CSCB68F, CSCB68F or CSCB73F, CSCB28S,
EC0B03Y or EC0B07Y, (MATB41F and
MATB425) or (MATB50F and
MATB55S),
MATA45S

Third year:
CSCC28F, COMB01, STAB52F, STAB57S,
MATB44F

Third or fourth year:
Two full-course equivalents to be chosen from the following options: One of CSCC64S, 438F, 448S,
465F, 478F; JMC551S and any three of CSCB65S, C44F or
C68F, CSC945S, 434F, 444S, 458S, 468F, 478F,
484F, 474S, 484F.
(Note that only JMC551S, MATB44F, CSCB68F,
CSCB65S, and CSCB64S are available at Scarborough; the
remaining courses must be completed at the St.
George campus.)

In completing the Programme a student is encouraged not to include any Computer
Science courses other than those required above.

Major Programme in Computer Science
Supervisor: W. Enright
Note: Registration in this Programme is limited. Thirty students will be admitted annually to the
Second Year of the Programme. Selection will be based on grades in first year courses in Com-
puter Science and Mathematics. Seven and one-half full-course equivalents are required. The courses need not be taken in the
order given, but care must be taken to ensure that prerequisites are satisfied and conflicts avoided.
CSCA55F/S/M Computer Programming
Introduction to computer programming. Emphasis is on learning to program in a high-level language. Various applications of computers will be discussed. (This course is intended for students who want to learn programming for their own area of interest.)

The purpose of the course is to introduce students to algorithms and to acquaint them with the capabilities and limitations of computers. The PL1 language is introduced as a tool for the precise specification of algorithms for computers, and for their communication to people. Some applications of programming techniques will be considered. Two hours of lecture and one two-hour tutorial per week.

Exclusion: CSCA58
Prerequisite: One grade 13 course in Mathematics
Session: Winter Day, Winter Evening, Summer Evening

CSCA56F Introduction to Computing
The specification and formulation of algorithms. Introduction to computer organization. Programming in a high-level language such as PL/C. Structured programming, elementary applications.

The PL/C programming language is used as a vehicle for the formulation and implementation of correct, lucid, and efficient algorithms for digital computers. Applications of programming techniques are considered. Two hours of lectures and two hours of tutorials per week.

Exclusion: CSCA56
Prerequisite: Grade 13 Functions and Relations, and Grade 13 Calculus
Corequisite: MATA26 or MATA55 or MATA27
Session: Winter Day

CSCA58S Programming Applications
Practical approaches to solving problems involving data structures, non-numerical applications and data processing. This course is a continuation of CSCA56 and it covers sample problems from several areas. Particular emphasis is placed on business applications.

Exclusion: CSCA69
Prerequisite: CSCA56 or CSCA58
Session: Winter Day

CSCA68S Problem Solving With Computers
A continuation of CSCA56. The application of computers to various numerical and non-numerical problems. Topics will include numerical methods, simulations, graph theory, data processing, and the validity of computer models.

Specific topics include: basic data structures; lists, stacks, queues, trees, graphs. Recursive programming. Graph theory algorithms. Sorting and searching algorithms. Numerical methods. Two hours of lectures, and a two-hour tutorial per week.

Exclusion: CSCA66
Prerequisite: CSCA58
Corequisite: MATA26 or MATA55
Session: Winter Day

CSCB285 Programming Techniques for Data Processing
This course is intended to examine the role of the computer in the business environment. The emphasis will be on the design methodology of business computer systems. This course is mainly concerned with the implementation of systems and analysis of business applications systems. Specific topics include: the modular approach to programming, including decision tables, if-then-else, and while loops; program design and testing, including debugging techniques; sequential file processing, including data validation, external sorting, generalized file processing systems. Some applications will be examined and an overview of the role of mathematical modeling in the business environment will be given. Enrolment limit: 100
Prerequisite: CSCB28
Session: Winter Day

JMC32F/32S Graph Theory and Algorithms for its Applications
Graphs, subgraphs, isomorphism, trees, connectivity, Euler and Hamiltonian properties, matchings, vertex and edge colourings, planarity, network flows, and strongly regular graphs. A selection of applications to such problems as timetabling, personnel assignment, tank farm scheduling, travelling salesmen, tournament scheduling, experimental design and finite geometries. Explicit algorithms and their computational complexity will be discussed whenever possible.
Prerequisite: MATH44 (MAT44) and at least one other B- level course in Mathematics or Computer Science.
Session: Winter Day

JMC51S Numerical Methods

This course is an introduction to the numerical solution of various types of mathematical problems. The emphasis will be on the analysis of a few reliable methods and on their comparison, for each class of problem. All the algorithms that will be used are available in a software library, so that programming will be restricted to the writing of short driving and linking programs.
Eight or nine assignments will be given.
The programming language of the package is FORTRAN, for which a brief review will be given.
Exclusion: MATB53
Prerequisite: MATA40, MATB42 or MATAB55
Session: Winter Day

CSCB34F File Structures and Application Systems
Searching techniques including binary trees, B-trees, and hashing. File structures and access methods. Emphasis will be given to the implementation of data, file systems, and business applications systems. Specific topics include: the modular approach to programming, including decision tables, if-then-else, and while loops; program design and testing, including debugging techniques; sequential file processing, including data validation, external sorting, generalized file processing systems. Some applications will be examined and an overview of the role of mathematical modeling in the business environment will be given. Enrolment limit: 100
Prerequisite: CSCB28
Session: Winter Day
Courses Not Offered in 1983-84

CSCC648 Effective and Efficient Computing
Prerequisite: MATB44
Session: Winter Day

CSCC88F Compiler Design
Compiler organization. Lexical scanning, parsing, semantic analysis, symbol table management, runtime storage organization, code generation. Applications of regular expressions, finite automata and context-free grammars to programming language translation. Compiler writing tools.
Corequisite: CSCC34F or CSCC78F
Prerequisites: CSCB58F or CSCB73F, CSCB68F
Exclusion: CSCC44F
Session: Winter Day

CSCC78F Information Structures
This course is designed to teach students that care taken in representation of information can lead to improvements in the quality of programs. A selection of topics will be used to illustrate approaches to choosing a data structure and associated algorithms. Specific topics include: basic data types and their representation, sequences, graphs and basic graph algorithms, representation of trees and heaps, internal and external sorting algorithms, search algebraic structures, trees, dictionaries and hash tables, file structures, data base systems. The course structure is lectures and tutorials.
Exclusion: CSCC34 before 1982/83
Prerequisite: CSCC68
Session: Winter Day

CSCC88S Microprocessor Systems
Hardware and software aspects of microcomputers and microprocessors. Instruction sets, addressing modes, memory devices, bus structures, input/output and interrupt mechanisms. Assembly language and high level language programming. System and applications software. Laboratory experiments will provide hands-on experience.
Prerequisite: CSCC68 or Permission of instructor.
Session: Winter Day

Co-operative Programme in Administration

Director: Assistant to the Director: Joan Bunyan
Co-ordinator: Kim N. Humphries
The Co-operative Programme in Administration is designed to assist students to:
- understand the governmental decision process at all levels in Canada
- to learn and use methods for the efficient allocation of scarce resources in government and business
- to develop and evaluate public policies and manage programmes which deal with complex social, economic, political and business problems
- to appreciate the behavioral implications of human and group interaction
The Programme prepares students for permanent employment in government, regulatory agencies, crown corporations and business enterprises while providing students with the alternative of graduate work in the social sciences or professional schools of law, management, public administration, planning or social work. Graduates receive a four-year B.A. with a Specialist in Administration.

The basic principle of co-operative education is that a combination of academic studies and work placement can result in a richer educational experience and contribute substantially to preparation for careers after graduation.

Admission to the Programme
Students apply directly to the Co-operative Programme office for admission and can be considered only if they have been admitted to Scarborough College and the University of Toronto. Admissions are considered in May and June of each year. Our admissions procedure will include an evaluation of potential interest and ability in Administration and a letter of reference from a high school teacher or university instructor will be required from each applicant.
Enrollment in the programme is limited and only a small proportion of applicants can be accepted each year.

Students may apply to enter the Co-op Programme following completion of Grade 13 or equivalent, or one year of university studies. Admissions decisions follow a review of each student's high school and university curriculum, looking in particular for accomplishment in both quantitative and verbal skills.
For students applying from Grade 13, an appropriate Grade 13 curriculum would include at least one course from Functions and Relations, Algebra and Calculus and at least three courses from the following areas of studies: English, History and Humanities. Prior study in any of the social sciences is not required. University students interested in Administration are encouraged to apply whether or not they have completed any part of the first year curriculum. The timing of their first work placement will depend upon which part of the curriculum they have completed.

Students already holding an undergraduate degree are recommended to pursue graduate programmes in Business Management or Public Administration.

Specialist in Co-operative Programme in Administration

Supervisor: The Programme combines eight four-month terms of study at Scarborough College with four terms of work experience and two "off" terms, typically over a five year period. During work terms students serve in positions in government departments, crown corporations and business enterprises that are arranged by the Programme but won by students in competition with co-op students.
The Programme requires four work terms, with a fifth term optional with the agreement of the Co-ordinator. Each student's work term experience is evaluated by two processes: firstly, the employer, and secondly, the Co-ordinator, completes a detailed performance review which evaluates the student's work skills, abilities and interests; secondly, the student prepares and submits a work term report in which he/she integrates the knowledge gained on the placement with the academic study that he/she has completed. The work term reports are evaluated by at least one member of the faculty of Scarborough College. Satisfactory performance in placements, as measured by the employer, Co-ordinator and faculty member is a requisite to being given credit for a placement and continuation in the Programme.

To maintain standing in the Co-op Programme each student must complete at least four full-course equivalents each year and maintain an overall GPA of 2.0 in all courses. To be entitled to co-op status in the first work term (usually in the second year of study) a student must have completed seven full-course equivalents including COMM201, ECOA01, HIS202 or HIS203 or HIS204 and POLB90. To qualify for the second work term a student must have completed nine full-course
equivalents including COMB01, JCSB27, ECOB03 and POLB60. To qualify for the third work term, a student must have completed eleven full-course equivalents typically including the core statistics requirement. To qualify for the fourth work term, a student must have completed thirteen full-course equivalents.

The successful practice of administration demands certain basic skills irrespective of the institutional setting - public sector, private sector, not-for-profit sector - and the nature of the responsibility - management or policy analysis. The curriculum is designed to develop these basic skills in every student and is divided into two components: core courses and advanced options. Students select courses as follows:

A Core Courses in Behavioural Foundations, Public Policy Evaluation, Historical and Cultural Foundations and Management: every student selects eleven full-course equivalents as prescribed.

B Advanced options in Policy Analysis, Economic Policy, Evaluation of Social Issues, Urban and Regional Policy Analysis, and Programme Management. Based upon his career goals, personal skills and interests each student selects one of these options which involves a set of up to four and one-half full-course equivalents directed to advanced study in an area of administrative practice. Typically the choice of an advanced option need not be made until the third year.

The first two years of study for co-op students follow:

First Year: COMA01, ECOA01, HISB02 or HISB03 or HISB04, JCSB27 or MATH27, POLB50

Second Year: COMBO1, ECOB03, POLB60, two full-course equivalent electives; one work term

Every student in the Co-op Programme is required to pay an additional fee as established by Scarborough College.

A Core Courses: eleven full-course equivalents, to be selected as follows:

Behavioural Foundations (two full-course equivalents)

Required:

JCSB27 Organizational Behaviour
POLB65Y Political Behaviour

POLB66Y Psychology and Politics
POLC65F/S Topics in Political Leadership
PSYB10F/S Introduction to Social Psychology
PSYB11F/S Social Psychology Laboratory
SOCC01Y Political Sociology
SOCC13FS Industrial Sociology
SOCC007S Sociology of Occupations and Professions

II Public Policy Development and Evaluation (four and one-half full-course equivalents)

Required:

ECOA01Y Introduction to Economics
ECOB03Y Price Theory
POLB50Y Canadian Government and Politics
POLB60Y Public Administration

ECOB32F Economics of the Public Sector: Expenditures
ECOB35F Public Decision Making

III Historical and Cultural Foundations (two full-course equivalents)

To be selected from the curricular offerings of the Humanities Division at least one of which must be:

HISB02Y Britain from the 18th Century to the Present
HISB03Y History of the United States

HISB04Y Introductory to Canadian History

IV Programme Management (two and one-half full-course equivalents)

Required:

COMA01Y Financial Accounting
COMB01Y Management Accounting

ECOB11F/S Quantitative Methods in Economics

ECOB12S Quantitative Methods in Economics: Applications

GGFB02Y Analytical and Quantitative Methods in Geography

STAB5SF Probability and Statistics I
STAB57S Probability and Statistics II

PSYB07F Data Analysis in Psychology

PSYB08S Experimental Design in Psychology

SOCC006F Social Statistics

B Advanced Options: Students must choose one of the following categories:

I Policy Analysis (three full-course equivalents)

a two full-course equivalents from:

POLB37Y Public Policies in Canada

POLC05F Administrative Politics

POLC15S Policy Development

POLC02F/S Organized Interests and the State

b one half full-course equivalent from:

POLB51F/S Government and Politics in Ontario

POLB54F Intergovernmental Relations

c one half full-course equivalent from:

ECOB07Y Macroeconomic Theory and Policy

ECOB12S Quantitative Methods in Economics: Applications

ECOB31S Economics of the Public Sector: Taxation

ECOB35Y Public Decision Making

GGRB02F Industrial Organization

GGRB17S Development Principles

II Economic Policy (four full-course equivalents)

a required:

ECOB07Y Macroeconomic Theory and Policy

ECOB12S Quantitative Methods in Economics: Applications

b and one-half full-course equivalents from:

ECOB31S Economics of the Public Sector: Taxation

ECOB35Y Public Decision Making

ECOB41F Macroeconomics

GGRB02F Industrial Organization

GGRB17S Development Principles

c one full-course equivalent from:

POLB53Y Public Policies in Canada

POLC05S Administrative Politics

POLC15S Policy Development

POLC02F/S Organized Interests and the State

III Evaluation of Social Issues (four and one-half full-course equivalents)

Required:

COMA01Y Financial Accounting

COMB01Y Management Accounting

ECOB11F/S Quantitative Methods in Economics

ECOB12S Quantitative Methods in Economics: Applications

GGFB02Y Analytical and Quantitative Methods in Geography

STAB57S Probability and Statistics II

PSYB07F Data Analysis in Psychology

PSYB08S Experimental Design in Psychology

SOCC006F Social Statistics

Advanced Options: Students must choose one of the following categories:

I Policy Analysis (three full-course equivalents)

a two full-course equivalents from:

POLB37Y Public Policies in Canada

POLC05F Administrative Politics

POLC15S Policy Development

POLC02F/S Organized Interests and the State

b one half full-course equivalent from:

POLB51F/S Government and Politics in Ontario

IV Urban and Regional Policy Analysis (four and one-half full-course equivalents)

a required:

GGPA04Y The Nature of Human Geography

GGFB02Y Analytical and Quantitative Methods in Geography

GGFB06Y Urban Geography

GGRA07Y Development Principles

GGRA08Y Development Principles

b one full-course equivalent from:

ECOB41F Macroeconomics

GGRB02F Industrial Organization

GGRB17S Development Principles

C one half full-course equivalent from:

ECOB31S Economics of the Public Sector: Taxation

ECOB35Y Public Decision Making

GGRB02F Industrial Organization

GGRB17S Development Principles

SOCC13S Industrial Sociology

including at least one half-course from Computer Science.
Development Studies

College Programme in Development Studies
Supervisor: R. Sandbrook (284-3168)

Development studies have been stimulated by the demise of formal colonialism since the Second World War. The dimensions and diversity of problems facing developing countries have involved many academic disciplines. At Scarborough College the major programme is based primarily upon existing courses in the Division of Social Sciences 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 or in backward parts of "developed" countries. Students may then select additional courses from a broad range of relevant courses which will allow more specialized thematic or regional concentration, while ensuring the relatively broad interdisciplinary background essential in practical development work. Students enrolling in the College Programme in Development Studies are strongly advised to combine it with a major programme in a related discipline.

Students must enrol in at least three full-course equivalents from the following:
(Courses marked with an asterisk have prerequisites)

- *ECOB66F Economic Development
- *ECOB68S Comparative Economic Systems
- *GGRB27F Development Principles in Geography I
- *GGRB28S Development Principles in Geography II
- POLB91Y Politics of the Third World
- *SOCB16Y Social Change
- *SOCB17F Social Change in the Third World

An additional five full-course equivalents should be selected from the following:
(Courses not selected as the three core courses in the group above may be included)

- *ANTE05S Social Anthropological Study of Africa
- *ANTE21Y North American Background to Canadian Native Peoples
- *ANTE33F Political Anthropology
- *ANTE40Y Anthropological Demography
- *ANTC42Y Native Peoples of Canada
- *ECOB61S International Economics: Finance
- *ECOB62F International Economics: Trade Theory
- *ECOB82Y European Economic History
- *ECOC07S The Economics of Karl Marx
- *GGRB01Y Geography of Resources
- *GGRB29Y Soil Management and Conservation
- *GGRC33Y Africa: Perspectives in Geography and Development
- POLB69S Politics and Society in Contemporary Japan
- POLB92Y Politics and Society in Independent Africa
- POLB93Y The Chinese Political System
- *POLC91F Urbanization and Underdevelopment
- *POLC92S Multinational Corporations and Underdevelopment
- *SOCB14Y Comparative Social Structure
- *SOCB23Y Population
- *SOCB01F Sociology of Revolution
- *HISB21F Frontier Communities in the British European Commonwealth: The South African Model
- *HISB22S British Imperialism in India
- *HISC21Y Urbanization and Social Change in Nineteenth Century England

Additional courses of relevance to the programmes of which students should be aware:

- ECOB98Y North American Economic History
- *GGRB24Y Environmental Pollution
- POLC85Y Comparative Communism

Notes:
The College Programme in Development Studies requires a minimum of eight full-course equivalents from the courses listed above, together with appropriate prerequisites. These normally include A-level courses in each of the disciplines selected. It is possible to complete the College Programme in a three-year degree, as shown in Example 1 below. However, students who are interested in obtaining thorough training in development studies are strongly recommended to register in a four-year degree which requires combination of a Major Programme with the College Programme. This provides the opportunity to select a wider range of development courses as well as a stronger disciplinary background, as shown in Example 2 below.

Example 1 (three-year degree)
First Year:
HISB02Y, SOCA01Y, POLA01Y, GGRA04Y, ANT A01Y

Example 2 (four-year degree)
First Year:
ECOD01Y, SOCA01Y, POLA01Y, GGRA04Y, ANT A01Y

Second Year:
GGRB27Y, GGRB28S, POLB91Y, HISB21F, HISB22S, SOC B16Y

Third Year:
ANTE04Y, POLB86S, POLB92Y, SOCB23Y, SOCB16F, HIS C21Y

Fourth Year:
ECOB03Y, ECOB07Y, POLB91Y, GGRB27F, GGRB28S, SOC B16Y

Second Year:
ECOB66F, ECOB68S, ECOB11F, ECOB12S, ECOB16S, ECOB82F, GGRB01Y, ANTE32F, ANTE05S

Third Year:
SOCB17F, POLC91F, POLQ92S, ECOC07S, ECOC05S, GGRC33Y, POLB92Y

Fourth Year:
SOCB17F, POLC91F, POLQ92S, ECOC07S, ECOC05S, GGRC33Y, POLB92Y

Drama

Discipline Representative: M.Q. Schonberg

The Drama courses at Scarborough College have been devised to serve both students who intend to specialize in Drama and Theatre studies and those who have a casual interest in the subject.

At present we offer two types of courses which complement each other: theoretical and practical. The theoretical courses are in the History of Theatre, in which the student becomes familiar with the development of the theatre from a non-literary point of view from its classical beginnings to the present day. These courses are 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, the students become acquainted with all aspects of theatre production in studio situations, both as actors and technicians. The students study with faculty members and with professional artists and teachers. Participation in public productions at the College is encouraged.

Specialist Programme in Drama
Supervisor: M.Q. Schonberg (284-3126)

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

1 DRAS01Y An Introduction to the Practical Elements of Theatre
2 DRAS03Y The History of Theatre I
3 DRAS04Y The History of Theatre II
4 ENGB11Y Variety of Drama
5 ENGB31Y Modern Drama
6 Two full-course equivalents chosen from the following:
   CLAS02Y Greek and Roman Tragedy
   CANA06Y Canadian Drama
   ENGB04Y English Poetry and Drama 1660-1800
   ENGB10Y Shakespeare
   ENGB12Y English Drama to 1642
   ENGC29F* Drama in English Canada 1920-1970
   FREB29F* French Drama of the Eighteenth Century
   FREB30F* French Theatre of the Early Modern Period
Contemporary French Theatre: The Theatre and the Absurd
Theatre of French Canada Workshop in Modern French Theatre
French Classicism: The Theatre (GERB35*) The Development of German Drama (in translation)
GERB35* (GERB31*) Nineteenth Century Drama
GERB70* (GERB30*) Twentieth Century Drama
HUMB70* (HUMB30*) Introduction to Cinema
ITAS27 (ITAS30*) Modern Italian Theatre from Pirandello to the Present
ITAL35* (ITAL30*) Italian Sixteenth Century Theatre
ITAL43* (ITAL45*) Italian Eighteenth Century Theatre
ITAS35* (ITAS30*) Italian Sixteenth Century Theatre
SPA22 (SPA20) Spanish Drama
JSDB24 (JSDB30) Golden Age Drama
* Students should check these courses for prerequisites
Three full-course equivalents chosen from the following (of which two must be at the C-level, and no more than two may be chosen from DRAC10-C28).
DRAB20* The Directors' Theatre
DRAB50* The Art and Nature of Comedy
DRAB60* Canadian Drama
DRAB10* Improvisational Theatre: Commedia dell'Arte
DRAB13B Medieval and Early Tudor Drama: The Texts and Their Production
DRAC01* Advanced Practical Workshop and Elements of Directing
DRAC10** Individual Studies in French Theatre and Drama in Translation
DRAC11** Individual Studies in German Theatre and Drama in Translation
DRAC12** Individual Studies in Italian Theatre and Drama in Translation
DRAC13** Individual Studies in Russian Theatre and Drama in Translation
DRAC42** Individual Studies in Spanish Theatre in Translation
DRAC20**/DRAC21**/DRAC22**/DRAC23**/DRAC24**/DRAC25**/DRAC26**/DRAC27**/DRAC28** Supervised Reading Courses
The student may take only one of the Individual Studies courses in any single academic year.
Two full-course equivalents chosen from the following:
ANTAD1* Introduction to Anthropology
ANTAD3* Cultures in the Modern World
ANTB02* Anthropological Study of Religion
ANTB2* Comparative Mythology
CLAB01* Greek and Roman Epic (ENGA04) English Literature: Practical Criticism and Interpretation
ENG01* Twentieth Century Literature
ENG08* Aspects of Western Culture from the Renaissance to Modern Times
HISA01* The European World: An Introduction to History
HUM001* Prologue
HUMA12* Greek and Roman Mythology
LINGA01* General Linguistics
LINGA03* Introduction to Language
MUSC01* Introduction to Music
PHILB03* Philosophy and Art
PSY01* Introduction to Psychology
SOC001* Introduction to Sociology
** Students should check these courses for prerequisites
** Prerequisite ten full-course equivalents
NOTE: No more than ten full-course equivalents in Drama are permitted in the four-year degree.

Major Programmes in Drama
Supervisor: M.Q. Shonberg (204-3126)
A student is required to complete six full-course equivalents in the area of dramatic literature and theatre. The following four courses comprise the core of the programme:
DRAC01* Advanced Practical Workshop and Elements of Directing
DRAC02* History of Theatre I
DRAC03* History of Theatre II
DRAC11* Varieties of Drama
In addition, the student must take two full-course equivalents, one from group A and one from group B, but no more than two courses from DRAC10-C28 may be taken within the three-year degree.

Group A
DRAC10* Advanced Practical Workshop and Elements of Directing
DRAC11* Individual Studies in French Theatre and Drama in Translation
DRAC12* Individual Studies in German Theatre and Drama in Translation
DRAC13* Individual Studies in Italian Theatre and Drama in Translation
DRAC42* Individual Studies in Spanish Theatre in Translation
DRAC20*/DRAC21*/DRAC22*/DRAC23*/DRAC24*/DRAC25*/DRAC26*/DRAC27*/DRAC28* Supervised Reading Courses

Group B
DRAC02* The Directors' Theatre
DRAC03* The Art and Nature of Comedy
DRAC06* Canadian Drama
DRAC10* Improvisational Theatre: Commedia dell'Arte
DRAB12* Medieval and Early Tudor Drama: The Texts and Their Production
DRAB13B English Poetry, Prose and Drama 1580-1800
ENGC12* Shakespeare
ENGC13* English Drama to 1642
ENGC22* Drama in English Canada 1600-1970
ENGC31* French Drama of the Seventeenth Century
FREB39* French Theatre of the Early Modern Period
FREB31* Contemporary French Theatre: The Theatre and the Absurd
FREB32* The Theatre of French Canada
FREB33* Workshop in Modern French Theatre
FREB41* French Classicism: The Theatre
FREB50* The Development of German Drama (in translation)
GERB35* Nineteenth Century Drama
GERB70* Twentieth Century Drama
HUMB70* Introduction to Cinema
ITAS27* Modern Italian Theatre from Pirandello to the Present
ITAL35* Italian Sixteenth Century Theatre
ITAL43* Italian Eighteenth Century Theatre
JSDB24* Golden Age Drama
* Students should check these courses for prerequisites
** Prerequisite ten full-course equivalents

DRAB20* An Introduction to the Practical Elements of Theatre
A study of the practical elements and practical work of directors from 1600-1990.
The course will explore the work of famous theatrical companies and directors of the nineteenth and twentieth centuries, including such personalities as the Duke of Saxe-Meiningen, Andre Antoine, Constantin Stanislavsky, Gordon Craig, David Belasco, Jacques Copeau, Max Reinhardt, Bertold Brecht, Jean-Louis Barrault, Peter Brook and Jerzy Grotowski.
Two-hour class weekly which will include lectures as well as seminars, and extensive use of visual materials. Students will prepare individual projects related to the work of specific directors and theatre.
Session: Winter Day M.Q. Shonberg
DRAC01Y Canadian Drama
A study of at least 25 Canadian plays from Canada’s earliest theatre history to the present.
The course will survey the historical development and contemporary state of Canadian Drama (some attention will also be paid to the history of theatre in Canada). Playwrights whose works will be studied include: Charles Mair, Sarah Curzon, Lister Sinclair, Gwen Pharis Ringwood, Merrill Dennison, John Coutier, Herman Voaden, Robertson Davies, John Herbert, George Ryga, James Reaney, Michael Cook, Sharon Pollock, Carol Bolt, David Fernandi, Michel Trembley, Gertlein Gelinas, Erika Ritter, David French, David Freeman. Prerequisite: Permission of instructor required for students who have taken ENG2C285.
Session: Winter Evening
L.L. Browne

DRAB03Y The History of Theatre I
A study of the non-literary aspects of theatre from the pre-Hellenistic period to the end of the eighteenth century.
Areas of concentration will include classical and modern theatre, with special emphasis on the Hellenistic period; Western European Medieval drama and myths; the impact of the commedia dell’arte on European theatre; Elizabethan and Jacobean drama; the theatre of the Baroque; Neoclassicism. Acquaintance with representational plays of the various periods will be required. Attention will also be paid to the social and political milieu from which the plays arise.
Lectures and tutorials. The text for the course will be History of the Theatre by Oscar Brockett. Representative plays will be announced.
Session: Winter Evening
M.O. Schonberg

DRAC01Y Advanced Practical Workshop and Elements of Directing
This course is designed to enable advanced students to concentrate on problems related to the staging and direction of plays in studio situations.
A portion of the course is devoted to working with TV video tape equipment. A minimum of three hours weekly in formal groups, and additional time in rehearsals, will be devoted to advanced exercises in acting skills, scenework, and work on productions.
The text for the course will be Curtis Canfield’s The Craft of Play Directing. Lab fee $25.00. Prerequisite: DRAB01 Session: Winter Day
L.L. Browne

DRAC010Y Individual Studies in French Theatre and Drama in Translation

DRAC011Y Individual Studies in German Theatre and Drama in Translation

DRAC012Y Individual Studies in Italian Theatre and Drama in Translation

DRAC013Y Individual Studies in Russian Theatre and Drama in Translation

DRAC014Y Individual Studies in Spanish Theatre 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 with the student, a member of the language discipline, and the Drama supervisor.
In these courses the emphasis will be on the student’s individual initiative, with the faculty member acting as tutor rather than lecturer. Prerequisite: At least ten full course equivalents, two of which must be DRAB03 and DRAB04. These courses are intended for students specializing in Drama who are not sufficiently fluent in French/German/Italian/Portuguese/Spanish to read the works in the original language. Permission of Supervisor required.
Session: Winter Day
M.O. Schonberg

DRAC20-24Y
DRAC25F, C28S Supervised Reading Courses
This is an advanced reading course for drama students. The student wishing to take this course should consult with M.O. Schonberg, the Program Supervisor, who will arrange in cooperation with the student a reading list and set the specific requirement for this course.
The emphasis in this course will be on advanced individual projects exploring specific areas of the history of theatre, and/or dramatic literature. Proposals by students for specific projects will be assessed by the Supervisor in consultation with other members of faculty. Prerequisite: One B-level full-course equivalent in Drama, and permission of instructor.
Session: Winter Day
M.O. Schonberg

Courses Not Offered in 1983-84

Economics

Assistant Chairman: S. Howson
The Economics curriculum offers a wide variety of both 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 which are central to the curriculum: the introductory course (ECON01); the intermediate courses - Principle Theory (ECON101), and Micro Theory and Policy (ECON007); at least one course that provides a different perspective either on contemporary economic theory, or on ways of organizing economic activity - Economic History (ECON201, ECON202), the literature of Economics (ECON092, ECON201), Comparative Economic Systems (ECON601). A student who wishes a course in depth should consider acquiring a background in Accounting, Statistics, and Computer Science and, most importantly, of all, Mathematics ( especially Calculus, Probability Theory, and Linear Algebra).
Many courses in the Social Sciences complement courses in Economics, so students are urged to read the Calendar and, with the help of the Supervisor, to plan their programmes of study carefully.

Specialist Programme in Economics
NOTE: Registration in this Programme is limited. Students will be selected to enter the Second Year of the Programme, on the basis of GPA for all students, and the student’s grades are highest (including ECON01). Students wishing to register in the programme at a later date may be admitted at the discretion of the supervisor.
Supervisor: I. Parker
The Specialist Programme in Economics requires a heavy concentration in the discipline. A Specialist Programme 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 guarantee of employment but it does provide the basic quantitative and theoretical skills which are desirable for decision-making in business and government.
Students must complete at least nine and one-half 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 nine and one-half course minimum:

\begin{itemize}
  \item ECOA01Y
  \item CASC06F or CASC08F
  \item MATA27Y or MATA41F or MATA55F
  \item ECOB03Y (formerly ECOB01F and B025)
  \item ECOB07Y (formerly ECOB05F and B065)
  \item ECOB11F or (STAB52F and STAB57S)
  \item ECOB16F
  \item ECOB20F or ECOB21F or ECOB05F or ECOB07Y or ECOB06F or (STAB52F and STAB57S)
  \item ECOB13F or ECOB14S
  \item ECOB16F or (STAB52F and STAB57S)
  \item ECOB01Y or ECOB13F or ECOB14S
  \item One of: ECOA01Y or ECOA03Y or ECOB07Y or ECOB01F or ECOB07Y or ECOB13F or ECOB14S
\end{itemize}

A Workshop in Economics

A total of four C-level half courses in Economics are required in the programme, including those specified above.

Students are urged to take ECOA01Y, CASC06F or CASC08F and either MATA27Y or MATA55Y in their first year of full-time study (or equivalent). MATA27Y is adequate for satisfying the mathematics requirements of the Programme. However, students considering the possibility of graduate work in Economics are urged to take B-Level Calculus as well, and to take Mathematical Statistics (STAB52F and STAB57S) instead of ECOB11F/S.

Note: students taking MATB26 or MATA55 must complete additional courses in Mathematics in order to satisfy the Programme requirements (namely, MATB41F or MATB50F).

ECOB03Y, ECOB07Y and ECOB11F/S or (STAB52F and STAB57S) should normally be taken in the second year of full-time study. Students may petition the Supervisor for permission to substitute other courses for some of those listed above.

Specialist Programme in Economics and Mathematics

Note: Registration in this Programme is limited. Students will be selected to enter the Second Year of the Programme on the basis of GPA for those four courses taken to date in which the student's grades are highest (including ECOA01). Students wishing to register at a later date must be admitted at the discretion of the Supervisor.

Six full-course equivalents are required in each of the two disciplines. Specific courses required are listed below. In addition, mention is made of courses in other disciplines that complement the Specialist Programme.

Required courses in Economics:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>ECOA01Y</td>
<td>ECOB07Y</td>
</tr>
<tr>
<td>ECOB07Y</td>
<td>ECOB01F</td>
</tr>
<tr>
<td>ECOB03Y</td>
<td>ECOB31S, ECOB32F</td>
</tr>
<tr>
<td>ECOB01F</td>
<td>ECOB02F or ECOB21S or ECOB05S or ECOB07Y</td>
</tr>
<tr>
<td>ECOB35S</td>
<td>ECOB35S or ECOB66F</td>
</tr>
<tr>
<td>ECOB11F</td>
<td>ECOB11F/S or STAB52F and STAB57S</td>
</tr>
<tr>
<td>ECOB31S</td>
<td>Required courses in Political Science:</td>
</tr>
<tr>
<td>POLA01Y</td>
<td>POLA01Y</td>
</tr>
<tr>
<td>POLB05Y</td>
<td>POLB07Y or POLB31Y</td>
</tr>
<tr>
<td>POLB07Y</td>
<td>Three additional full-course equivalents from at least two of the five sub-fields listed below:</td>
</tr>
<tr>
<td>B</td>
<td>Political Behaviour: POLB65Y, POLB66Y, POLC65F/S</td>
</tr>
<tr>
<td>C</td>
<td>International Relations: POLB80Y, POLB81F/S, POLB82Y, POLB81F/S</td>
</tr>
<tr>
<td>D</td>
<td>Comparative Politics, Industrialised Countries: POLB85Y, POLB86Y, POLB87Y, POLB88Y, POLB89Y, POLB85Y</td>
</tr>
<tr>
<td>E</td>
<td>Comparative Politics, Developing Countries: POLB90Y, POLB92Y, POLB93Y, POLB91F, POLC92S</td>
</tr>
<tr>
<td>F</td>
<td>Related (but not required) courses in other disciplines: MATB22Y or MATB41F or MATA57Y, CASC06F, COMA01Y</td>
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</tbody>
</table>

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

Specialist Programme in Economics and Quantitative Methods

Note: Registration in this Programme is limited. Students will be selected to enter the Second Year of the Programme on the basis of GPA for at least twelve full-course equivalents in Economics, Mathematics, Statistics and Computer Science. The specific requirements are as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
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</thead>
<tbody>
<tr>
<td>ECOA01Y</td>
<td>CASC08F</td>
</tr>
<tr>
<td>CASC08S</td>
<td>MATA27Y or MATA27Y or MATA55Y</td>
</tr>
<tr>
<td>ECOB02Y</td>
<td>ECOB07Y</td>
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<tr>
<td>ECOB07Y</td>
<td>ECOB13S</td>
</tr>
<tr>
<td>ECOB14S</td>
<td>MATA40F or MATA45S, STAB52F and STAB57S</td>
</tr>
<tr>
<td>ECOB01Y</td>
<td>(MATA21F or MATA27Y or MATA55Y, CASC06F, CASC08F)</td>
</tr>
<tr>
<td>ECOB02Y</td>
<td>CASC09S</td>
</tr>
<tr>
<td>JCEB13F</td>
<td>One full course from: CSCC34F, CSCC35S, CSCC78F, MATB34S, MATC35Y, STAB52F, STAB57S</td>
</tr>
</tbody>
</table>

One full course from the Workshops in Economics and Politics.

Major Programme in Economics

Note: Registration in this Programme is limited. Students will be selected to enter the Second Year of the Programme on the basis of GPA for those four courses taken to date in which the student's grades are highest (including ECOA01). Students wishing to register at a later date must be admitted at the discretion of the Supervisor.

Supervisor: The Supervisor of Studies in Economics.

This Programme is designed to give a coordinated exposure to the subject matter of Economics to students pursuing the three-year degree or to those pursuing the four-year degree with more than a single area of concentration. The Programme consists of six full-course equivalents in Economics. These must include ECOA01Y, ECOB03Y, ECOB07Y, ECOB11F/S and ECOB20F or STAB52F and STAB57S. It is recommended, but not required, that a student also include:

- one C-level course
- one course chosen from: ECOB01Y, ECOB03Y, ECOB07Y, ECOB11F/S, and ECOB05F/S

Note: Students who have been admitted to the Programme prior to the summer of 1983 will not be required to take ECOB12.
ECOB121S Quantitative Methods in Economics II
An introduction to statistics and regression analysis as used in economic analysis. Topics to be covered include: analysis of variance (ANOVA); the simple regression model, testing of hypotheses in the regression model; an introduction to multiple regression. This course will include a series of computer-oriented assignments to give students familiarity with practical problems in regression analysis. Limited Enrolment: 60 per section
Prerequisite: ECOB01 and ECOB02
Session: Winter Day

ECOB31F Economics of the Public Sector: Taxation
A course concerned with the revenue side of government finance. In particular, the course deals with existing tax structures, in Canada and elsewhere, and with criteria for tax design. Some attention will also be given to the use of government fiscal policy to regulate the level of economic activity. Limited Enrolment: 60
Prerequisite: ECOB03
Session: Winter Day
M. Bucovetsky

ECOB32F Economics of the Public Sector: Expenditures
A study of resource allocation in relation to the public sector, with emphasis on decision criteria for public expenditures. The distinction between public and private goods is central to the course. Special topics discussed include: pollution, the economics of education, fiscal federalism, urban problems. Limited Enrolment: 60
Prerequisite: ECOB03
Session: Winter Day
M. Bucovetsky

ECOB35S Public Decision Making
A study of decision making by governments from an economic perspective. The course begins by examining various rationales for public involvement in the economy and then examines a number of theories explaining the way decisions are actually made in the public sector. The course concludes with a number of case studies of Canadian public policy making. Limited Enrolment: 60
Prerequisite: ECOB01
Session: Winter Day
M. Krashinsky

ECOB37S Law and Economics
A study of laws and legal institutions from an economic perspective. Includes the development of a positive theory of the law suggesting that laws frequently evolve so as to maximize economic efficiency. The efficiency of various legal principles is examined. Topics covered are drawn from: exteriors, property rights, environmental law, contracts, torts, product liability, and consumer protection, criminal law, and procedure. Limited Enrolment: 60
Prerequisite: ECOB03
ECOB37S is a corequisite to ECOB03
ECOB03 will be accepted as a corequisite when ECOB37S is taught in the second term of the winter session.
Session: Winter Day
M. Krashinsky

ECOB41F/S Industrial Organization
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. Class size is limited to 60 per section.
Prerequisite: ECOB03
Session: Winter Day
R. Saunders

ECOB45S Poverty and Income Distribution
A study of alternative theories of income distribution with application to poverty and income distribution in Canada. Includes an analysis of the impact of alternative income maintenance schemes such as welfare, negative income taxes, wage subsidies, unemployment insurance, minimum wages, human resource development and public expenditures, taxes and subsidies, as well as the impact of aggregate demand policies on the distribution of income. Limited Enrolment: 60
Prerequisite: ECOB03
Session: Winter Day
M. Gunderson

ECOB47S Urban Economics
Economic analysis applied to contemporary urban problems. Topics discussed include housing and urban renewal, poverty and income maintenance, and metropolitan organization of urban areas.
Prerequisite: ECOB03
Session: Winter Day

ECOB51S Labour Economics
The application of the basic tools of labor economics to various policy issues such as: fertility and family formation; labor force participation; hours of work, overtime and moonlighting; mobility and migration; the effect of market structures on the wage-employment decision; the role of wage structures; causes, types and incidence of unemployment; wage-price guidelines and the wage-price-employment trade-offs. The impact of institutional constraints such as unions, featherbedding, minimum wages, wage parity, sex discrimination, occupational licensing, unemployment insurance, wage subsidies and negative income tax plans. Limited Enrolment: 60
Prerequisite: ECOB03
Session: Winter Day
M. Gunderson
JECB54S  Industrial Relations
A study of industrial relations in the Canadian setting. Topics include: industrial relations theory and systems, history, philosophy and structures of unions, labour law, and collective bargaining. Limited enrolment: 60.
Prerequisite: Completion of at least ten courses including ECOA01.
Session: Winter Evening

ECOB81S  International Economics: Finance
Macroeconomic theories of the balance of payments and the exchange rate in a small open economy. Recent theories of exchange-rate determination, in a world of flexible exchange rates and the forward exchange market. The international monetary system: fixed versus flexible exchange rates; international capital movements; eurocurrency markets and their implications for monetary policy. Limited enrolment: 60.
Prerequisite: ECOB07
Session: Winter Day

ECOB82F  International Economics: Trade Theory
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, nontariff barriers); the theory of customs unions. Limited enrolment: 60.
Prerequisite: ECOB03
Session: Winter Day

ECOB85F  Economic Development
A study of growth and development with the aim of devising policies to promote the development of less developed countries and regions. Topics include the role of international trade and investment in developing countries, the problems of population growth and unemployment, inequalities in income distribution, the roles of agriculture and industry. Limited enrolment: 60.
Prerequisite: ECOB03
Session: Winter Day

ECOB86S  Comparative Economic Systems
An introduction to alternative ways of organizing economic activities - allocating resources, distributing income, accumulating capital. Part of the time will be spent examining these alternatives from a theoretical perspective, the rest will be devoted to studies of particular economies, especially Canada, the Soviet Union and Yugoslavia. Limited enrolment: 80.
Prerequisite: ECOA01
Corequisite: ECOB03
Session: Winter Day
I. Parker

JECB72F  Analysis for Decision Making I
A course in the analytical formulation and solution of decision problems. Linear decision models, and especially linear programming, are the tools primarily discussed and employed. Limited enrolment: 80.
Prerequisite: CS2A50 or CS2A58, MATA40 or MATA22 or MATA26 or MATA27 or MATA35, ECOB03 or ECOB11 or GGRB02 or MMRSY
Session: Winter Day

JECB73S  Analysis for Decision Making II
A continuation of JECB72 with less emphasis on deterministic linear models. Course content will be determined by the instructor and will usually include several of the following: decision making under uncertainty, inventory theory, simulation, non-linear programming, allocation of risk-bearing limited liability. Limited enrolment: 80.
Prerequisite: JECB72
Session: Winter Day

ECOB81Y  North American Economic History
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 the natural resource staple industries, and urbanization, and the relationship of the state to economic development in the two countries. Limited enrolment: 60.
Prerequisite: ECOA01
Session: Winter Day
D. Moggridge

ECOB82Y  European Economic History
A study of the emergence of an industrial society in Europe since the Middle Ages with some emphasis on the comparative experience of Britain and other European countries and the growth of the nineteenth century world economy. Particular attention is paid to technical change, the expansion of markets, population growth, the economic effects of public policy, and consequent changes in income levels and the structure of the economy. Limited enrolment: 60.
Prerequisite: ECOA01
Session: Winter Day
J. Cohen

JECO82Y  Corporation Finance
An examination of the financial environment within which Canadian companies operate. The aim is to cover the main principles of financial management and to discover the social and legal significance of the modern corporation. Limited enrolment: 60.
Prerequisite: COMB01, ECOB03, ECOB11, ECOB12
Students who have successfully completed ECOB11 prior to the Summer 1983 session are not required to do ECOB12 as a prerequisite to this course.
Session: Winter Day, Winter Evening

ECOC05S  The Economics of J. M. Keynes
A study of his major works and consideration of their implications. Modern criticisms and interpretations will be discussed.
Prerequisite: ECOB03, ECOB07
Session: Winter Day, Winter Evening
D. Moggridge

ECOC07S  The Economics of Karl Marx
A study of Marx's approach to economic theory and economic history. Discussion will centre on Marx's theory of capitalism and will emphasize the theory of exploitation and the process of accumulation.
Prerequisite: ECOB03, ECOB07
Session: Winter Day

ECOC08S  Econometrics
A formal development of multiple regression analysis using matrix algebra. Topics include the properties of least squares estimators, hypothesis testing, and techniques for diagnosing and correcting misspecified models. A research paper will be required.
Exclusions: ECO327, ECO328
Prerequisite: ECOB03, ECOB07, MATA30 or MATM41 or permission of instructor
Corequisite: ECOC13 or ECOC14
Session: Winter Day
A. Melino

ECOC11F and ECOC12S  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 course normally will be made available only to students whose performance in Economics courses has been well above average. Students interested in supervised reading courses are urged to contact faculty members well in advance, as not all faculty will be available for these courses in any single term.
Prerequisite: Permission of instructor
Session: Summer Day, Summer Evening, Winter Day, Winter Evening

ECOC13F  Advanced Microeconomic Theory
An upper level extension 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.
Prerequisite: ECOB03, ECOB07, ECOB11, MATA27 or MATA25
Session: Winter Day

ECOC14S  Advanced Macroeconomic Theory
Post-Keynesian developments in macroeconomic (including monetary) theory; empirical testing of Keynesian and post-Keynesian macroeconomic theories and the uses of macroeconomic models.
Prerequisite: ECOB03, ECOB07, ECOB11, MATA27 or MATA25
Session: Winter Day

EED09F and EED16S  Topics in Advanced Economic Theory
These courses are devoted to some aspect of economic theory not usually covered at the undergraduate level, or to recent work extending or revising received theory, or to alternatives to orthodox economic theory.
A detailed list of courses and instructors will be available to students from the late spring onwards.
Prerequisite: ECO13 or ECO14 and permission of instructor
Session: Winter Day
Discipline Representative: M. S. Tait
The study of English literature encompasses English, Canadian and American literatures and other literatures 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 individual authors, to allow students to pursue individual interests to greater depth. In all courses, emphasis is placed on close responsive reading, critical thinking and clarity of expression.

At the A-level, the curriculum offers two kinds of courses, A01 and A02. Course A01 deals with works of a broad historical scope, and is designed for students who are interested in the study of English literature at the university level. Course A02 is designed to build upon previous work in English and presuppose some background in critical skills and some familiarity with the subject matter. C-level courses are designed for more sophisticated students and require some independent work on the part of the student. These courses are generally restricted in enrolment and are conducted as seminars. Students are advised to consult the prerequisites for these courses when planning their individual programmes.

Specialist Programme in English
Supervisor: M. S. Tait (284-3146)
Ten full-course equivalents in English and two in related humanities disciplines are required.

Courses Not Offered in 1983-84
ECOC17Y
ECOC18S
ECOC19F
ECOC20S
Workshops in Economics

ECOC24S Workshops in Economics
The workshops deal with detailed problems in areas in Economics. In past years these have included such subjects as natural resources, technical change, international investment, multinational firms, economic discrimination, or extensions of topics covered at the A-level. A detailed list of the courses and instructors will be available to students from the late spring onwards.
Prerequisite: ECOC03; ECOC07; MATA26 or MATA27 or MATA55. For ECOC23 and ECOC24, ECOC13 or ECOC14 will be a prerequisite.

Session: Winter Day

JEC0405 Public Policy Towards Business
A study of various aspects of government policy that relate to the conduct of firms. Topics covered will include regulation, theory and practice, the political economy of tariff determination and the effects of tariffs on Canadian industrial structure, competition policy and the impact of limited enrolment. Required: ECOC041
Prerequisite: ECOC041
Session: Winter Day
R. Saunders

JEC0705 Advanced Corporate Finance
This course focuses on major issues in corporate financial management with reference to company valuation for financial institutions and capital structure issues. Required: Limited enrolment. Required: ECOC070
Prerequisite: ECOC070
Session: Winter Day
R. Saunders

JEC0765 Investments
This course reviews major investment problems, in particular the factors affecting term structure and risk structure of yields on financial claims.
Limited enrolment: 60.
Prerequisite: ECOC076
Session: Winter Evening
R. Saunders

ENG055Y Two full-course equivalents in English at the C-level
ENG055Y Two full-course equivalents in related humanities disciplines to be chosen from the following.
CLAB01Y Greek and Roman Epic
CLAB02Y Greek and Roman Tragedy
HHSB02Y Britain from the Eighteenth Century to the Present
HHSB03Y Tolkien and Middle Earth (Prerequisite: a B-level HHS course)
HUMA01Y Prologue
HUMA11Y Greek and Roman Mythology
LINM1Y General Linguistics
The above listing represents those courses which have a general relevance to the study of English literature. Students may substitute, with the prior approval of the Supervisor, other Humanities courses which have specific relevance to their individual programmes.

Major Programme in English
Supervisor: M. S. Tait (284-3146)
Seven full-course equivalents in English are required. They should be selected as follows:
1. ENGA01Y English Literature: Practical Criticism and Interpretation
2. ENGA02Y English Literature: An Historical Survey
3. ENGA03Y English Literature: Literary History and Criticism
4. ENGA04Y English Literature: Practical Criticism and Interpretation
5. ENGA05Y English Literature: An Historical Survey
6. ENGA06Y English Literature: Literary History and Criticism
7. ENGA07Y English Literature: Practical Criticism and Interpretation

The above list should not be considered as exhaustive. Students may choose to substitute other courses from the University's catalogue.

ENGA01Y English Literature: Practical Criticism and Interpretation
An introduction to methods of literary criticism through the close reading of texts representative of various literary genres, and through frequent exercises in analytical writing. Normally taken in conjunction with ENG02Y.

ENGA02Y English Literature: An Historical Survey

ENGA03Y English Literature: Literary History and Criticism

ENGA04Y English Literature: Practical Criticism and Interpretation

ENGA05Y English Literature: An Historical Survey

ENGA06Y English Literature: Literary History and Criticism

ENGA07Y English Literature: Practical Criticism and Interpretation

ENGA08Y Twentieth-Century Literature
An introduction to critical reading and writing through a selection of modern literature from the English-speaking world. This course will explore literature of the modern period -- a time of change and experiment. We will study short stories and novels by such writers as Joyce, Faulkner, D.H. Lawrence, Nabokov, and Margaret Laurence. Plays by dramatists such as O'Neill, Tennessee Williams, Beckett, and a selection of modern poetry. Essays based on the reading will provide practice in university-level writing and training in methods of analysis and exposition. Texts to be announced.

ENGA09Y Twentieth-Century Literature
An introduction to critical reading and writing through a selection of modern literature from the English-speaking world. This course will explore literature of the modern period -- a time of change and experiment. We will study short stories and novels by such writers as Joyce, Faulkner, D.H. Lawrence, Nabokov, and Margaret Laurence. Plays by dramatists such as O'Neill, Tennessee Williams, Beckett, and a selection of modern poetry. Essays based on the reading will provide practice in university-level writing and training in methods of analysis and exposition. Texts to be announced.
ENGB07Y Canadian Literature in English: An Introduction
A study of the Canadian literary tradition in English, including major works by contemporary writers, critical, and theoretical perspectives. Includes a study of the historical, cultural, and political contexts of Canadian literature.

R. Brown, W. J. Howard

ENGB11Y Varieties of Drama
A study of drama from ancient Greece to the present day. The course introduces students to a wide range of dramatic forms and techniques, including Greek, Roman, and modern drama. The course will include a study of the plays of Shakespeare, Marlowe, and Webster, as well as a study of modern and contemporary playwrights.

Session: Winter Day
H. Jackson

ENGB15Y English Poetry
A comparative study of major English poets, focusing on their work in the context of English literature as a whole. The course will include a study of the work of Chaucer, Shakespeare, Blake, and Tennyson, as well as a study of modern poets such as Auden, Eliot, and Dylan Thomas.

Session: Winter Day
S. Namayashi

ENGB16Y Fiction 1832-1900
A study of the development of the English novel in the Victorian period. The course will focus on the work of Dickens, Thackeray, and George Eliot, as well as a study of other major novelists of the period.

Session: Winter Day
A. Thomas

ENGB20F Contemporary Literature in English: Africa and the West Indies
A study of the literature of Africa and the West Indies, focusing on the works of major authors such as Achebe, Ngugi wa Thiong'o, and VS Naipaul. The course will also include a study of the political and social context of the region.

Session: Winter Day
W. J. Howard
ENGB21S Contemporary Literature in English: India and Australia
The twentieth century literature of India and Australia will be traced from its origins to the present day.
Attention will be given to the cultural and political backgrounds as well as to the rhetorical traditions which evidence an influence. The works of the most significant writers will be emphasized: e.g. Raja, Habibullah, Narayan, Magonokar, Kenean P. Stow, Stade, White.
Exclusion: ENGB26Y
Session: Winter Day
W. J. Howard

ENGB24Y Major American Authors
A close study of works by at least four and no more than six authors. Three of the authors will be drawn from the following list: Cooper, Emerson, Melville, Whitman, Twain, James, Eliot, Frost, Hemingway, Stevens, Faulkner.
Further information will be available later in Room 321A.
Prerequisite: One full-course equivalent in English
Session: Winter Day
J. Kay

ENGB25F The Canadian Short Story
A study of the best contemporary short stories written by Canadian authors. The course will emphasize the short fiction of Margaret Atwood, Margaret Laurence, Alice Munro, Clark Blaise, Hugh Hood, and Mavis Gallant.
This course will not be a survey of authors studied chronologically, nor will it place its primary focus on the context of culture or nationality. Instead, it will first of all seek to discover techniques for reading Canadian short stories.
Since only the techniques considered will be the use of an author's body of work as a means of understanding an individual story, single author collections will be used rather than an anthology. The course will also discuss technical aspects of the short story as a literary form and will investigate a number of larger contexts (modernism, the literary tradition, culture).
The following works will be studied in this course: Margaret Atwood; Dancing Girls, Margaret Laurence, A Bird in the House, Clark Blaise, A North American Education, Alice Munro, Something I've Been Meaning to Tell You, Mavis Gallant, The End of the World, Sinclair Ross, The Lambs at Noon, Hugh Hood, Selected Stories, and one or two other collections.
Session: Winter Day
Russell Brown

ENGB26Y Canadian Poetry in English
A study of the Canadian poets of the nineteenth and twentieth centuries, including Lampman, Pratt, F.R. Scott, A.J.M. Smith, Bly, Klein, Layton, Robson, Avison, Livesay and Atwood.
Prerequisites: B.A. in English or permission of instructor.
Session: Winter Day

ENGB27Y Canadian Fiction in English
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 century, to the contemporary period of new exploration and consolidation.
Prerequisites: One full-course equivalent in English
Session: Winter Day
S. Namjoshi

ENGB33Y Fiction 1900-1950
An intensive study of at least twelve novels, with particular attention given to developments in fictional form and in the theory of the novel.
The early twentieth century was a period of innovation and experimentation in the novel. New ways of writing novels expressed new ways of thinking about man. This course explores the emergence of a new context for fiction: truth as relative and subjective; character as a complex of unconscious impulses; time as a fluid continuum; reality as the perceived mind. The course also examines works in which modern novelists abandoned or modified old fashioned techniques. Texts include: James, The Ambassadors; Conrad, Lord Jim; Ford, The Good Soldier; Joyce, A Portrait; Lawrence, Sons and Lovers; Woll, To the Lighthouse; Forster, A Passage to India; Faulkner, Absalom, Absalom. Students are urged to do some reading in advance and use editions listed in the course syllabus.
Prerequisite: ENGA01, ENGA02, or ENGB15
Session: Winter Day
K. Theil

ENGB34S The Short Story
An introduction to the short story as a literary form.
This course will suggest that the short story, like the lyric poem, may have a simple face, but a complex psychology. We shall examine its special appeal for writers and readers; the particular effects it is best able to produce; its origins and the course of its development. The reading will begin with stories drawn from different countries and periods to explore the variety of possibilities within the form. We shall then concentrate upon a few writers and their individual achievements. Some readings in the theory of short fiction will be assigned.
Session: Winter Day
M. Cuddy-Keane

ENGB71F Dryden and the Restoration
A study of English plays, poems and non-fiction prose of the period 1660-1700.
In addition to Dryden, authors to be studied will include Butler, Rochester, Congreve and Wycherley. Texts to be announced.
Exclusion: ENGB04
Prerequisite: ENGA01, ENGA02, or ENGB15
Session: Winter Day
W. J. Howard

ENGB72S Pope, Swift and the Early Eighteenth Century
A study of English poetry and prose, 1700-1745.
In addition to Pope and Swift, authors to be studied will include Addison, Steele and Defoe. Texts to be announced.
Exclusion: ENGB04
Prerequisite: ENGA01, ENGA02, or ENGB15
Session: Winter Day
W. J. Howard

ENGB95Y English Literary Criticism
A study of English literary criticism from the Renaissance to the 20th Century.
This course aims to develop a systematic understanding of criticism. Some great critical and theoretical works in the English tradition will be studied in depth. Reading will include works by: Pope, Johnson, Coleridge, Shelley, Arnold, Leavis, Richards, Empson, Frye, Burke, among others.
Central issues of literary theory are raised by these works and will be discussed in relation to them.
Prerequisites: A01 (A04), A02 and two further full-course equivalents in English.
Session: Winter Evening
J. Kay

ENGC14Y Senior Essay
A scholarly project, chosen by the student and supervised by one faculty member. Approval by the faculty in English must 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 his supervisor, but advice on this matter may be sought from the Discipline Representative. The following deadlines should be observed: By the last day of term the previous spring a brief statement of the area of the project, signed by the supervisor is to be sent to Profess-
ENGCS15Y Comprehensive Examinations

Comprehensive Examinations in English count as a full course in the student's Programme. It will take the form of a reading course under the direction of an advisor. Approval by the faculty in English and the supervisor must be obtained by the student before the end of the previous Spring term.

Each student will design his course in consultation with his advisor. In order to identify areas where more reading may be required and possible areas for special study, a checklist of major authors is made available to students in the February of their Third Year. It is not assumed that the student, when he presents himself for examination, will have achieved complete mastery of all the authors mentioned. On the other hand, the list, despite its length, is selective rather than exhaustive and is therefore not intended to set rigidly prescribed limits on the reading for the course. The student in his fourth year will already be familiar with many of the authors through his work in other courses, and the use he makes of the list during that year (and in the summer preceding it) will depend on his own interests, his previous studies, and discussion with his advisor.

Prerequisite: Normally three full-course equivalents in English, at least one at B-level.

Session: Winter Day

Staff

ENGCS0-99F/S Selected Topics in Nineteenth Century Literature

A detailed study of an individual author or a literary movement in the literature of the Nineteenth Century.

ENGCS1F George Eliot

The primary focus will be on a close analysis of approximately four novels, reflecting the author's development as an artist; readings will include selections from her letters and journals. Students are advised to obtain the Norton Edition of Middlemarch and read that novel in advance. Prior reading of The Mill on the Floss is also strongly recommended.

Prerequisites: ENGCS01, ENGCS02; three further full-course equivalents in English, or one of ENGCS05, ENGCS06, ENGCS16. Enrollment limited to 15. Session: Winter Day. M. Cuddy-Keane

ENGCS09-99F/S Selected Topics in Twentieth Century Literature

A detailed study of an individual author or a literary movement in the literature of the Twentieth Century.

ENGCS09F F. Scott Fitzgerald and Ernest Hemingway

A study of some patterns in American literature between the wars, as they emerge in the work of Fitzgerald and Hemingway. Texts will include at least two novels and some short fiction, letters, and critical writing by each novelist. (The Great Gatsby; Tender is the Night; The Sun Also Rises; A Farewell to Arms, etc.). Evaluation will be based on a term paper, a seminar presentation, and several short assignments.

Prerequisites: ENGCS01, ENGCS02; three further full-course equivalents in English, or one of ENGCS09, ENGCS10, ENGCS12. Enrollment limited to 15. Session: Winter Day. E. P. Vaccarino

ENGCS01Y Advanced Studies in Beowulf and Other Old English Poetry

Prerequisite: ENGCS01.

Session: Winter Day

Staff

ENGCS09Y Studies in Restoration and Eighteenth Century Literature

Prerequisite: ENGCS01, ENGCS02; three further full-course equivalents in English, or one of ENGCS09, ENGCS10, ENGCS12. Enrollment limited to 15. Session: Winter Day. K. Trench

ENGCS09S James Joyce

A study of continuity and development in the work of Joyce. Texts include: Stephen Hero, A Portrait of the Artist, Dubliners, Exiles, Ulysses, and selections from Finnegans Wake. The Odyssey, some Joyce letters, and some critical material will also be required reading. Evaluation will be based on a term paper, a seminar presentation, and several short assignments.

Prerequisites: ENGCS01, ENGCS02; three further full-course equivalents in English, or one of ENGCS09, ENGCS10, ENGCS12. Enrollment limited to 15. Session: Winter Day. E. P. Vaccarino

Courses Not Offered in 1983-84

ENGBO2Y Chaucer

Corequisite: ENGCS01, ENGCS02; or ENGCS15.

ENGBO5Y Romantic Poetry

Corequisite: ENGCS01, ENGCS02; or ENGCS15.

ENGBO7Y Canadian Literature in English: An Introduction

ENGBO8Y American Literature: An Introduction

ENGBO17Y Fiction before 1832

Prerequisite: ENGCS01, ENGCS02; or ENGCS14

ENGBO25F F. Scott Fitzgerald and Ernest Hemingway

The Canadian Short Story

Modern Poetry

Prerequisite: ENGCS01, ENGCS02; or ENGCS15.

ENGBO32Y Studies in Middle English Language and Literature

Prerequisite: ENGCS01.

Session: Winter Day

Staff

ENGBO32Y Studies in Renaissance Literature

Prerequisite: ENGCS01, ENGCS02; three further full-course equivalents in English, or one of ENGCS09, ENGCS10, ENGCS12. Enrollment limited to 15. Session: Winter Day. E. P. Vaccarino

ENGBO30Y Studies in Restoration and Eighteenth Century Literature

Prerequisite: ENGCS01, ENGCS02; three further full-course equivalents in English, or one of ENGCS09, ENGCS10, ENGCS12. Enrollment limited to 15. Session: Winter Day. K. Trench
Fine Art

Discipline Representative: L. Carney

The Fine Art curriculum offers courses in the two complementary fields of art history and studio. The courses offered in art history deal primarily with the development of the arts in the West from classical times to the present day. The studio curriculum has been designed to develop creative thinking and provides opportunities for a first-hand acquaintance with materials, forms, and concepts of the visual arts.

Students are encouraged to take relevant courses in other disciplines in order to enhance their background knowledge and to become familiar with a variety of views of fine art.

Students who wish to supplement Scarborough offerings in art history with courses on the St. George campus should also pay careful attention to the requirements described in the calendar of the Faculty of Arts and Science. It should be noted that course offerings are not identical on both campuses. Requirements for a 300- or 400-level course on the St. George campus can be met at Scarborough by taking an A and a B-level survey in the same area as the upper level course. (See also page 24 of this calendar.)

Since reading ability of foreign languages is necessary in many advanced fields of art history, and since a reading knowledge of certain foreign languages is a prerequisite for admission to some upper level art history courses on the St. George campus, it is highly recommended that students acquire proficiency in one or more languages (French, German or Italian) by the end of their second year.

Students in studio courses are required to meet part of the cost of materials for each half-course.

Specialist Programme in Fine Art History
Supervisor: R. Siebelhoff (284-3179)

Students must complete eleven full-course equivalents as follows:

1. One A-level full-course equivalent in one of the following areas:
   - Classical
   - Medieval
   - Renaissance
   - Baroque
   - Modern (1750 to the present)
2. Two B-level full-course equivalents in any other area of art history
3. Two B-level full-course equivalents in cognate fields

Major Programme in Fine Art Studio
Supervisor: J. Hoogstraten (284-3370)

Students must complete six full-course equivalents as follows:

1. Two and one-half studio courses, one of which must be at the C-level.
2. One additional full-course equivalent in Art History.
3. One additional full-course equivalent in art history at the C-level.

Specialist Programme in Fine Art Studio
Supervisor: J. Hoogstraten (284-3370)

Students must complete fourteen full-course equivalents: ten in studio; any two full-course equivalents in art history; and two additional courses in cognate disciplines. The courses in studio must include:

1. FARA10Y
2. FARB70F/S; FARB72F/S; FARB75Y;
   - FARB82F/S; FARB84Y
3. Three and one-half B-level full-course equivalents chosen from the following:
   - FARB74F/S; FARB76Y; FARB77Y;
   - FARB83F/S; FARB85Y; FARB89F/S;
   - FARB91F/S; FARB92Y
4. Two C-level full-course equivalents.

Students wishing to specialize in either painting or printmaking are advised to select three and one-half B-level full-course equivalents in one of these areas, and then to complete two C-level courses in the chosen area. The two full-course equivalents in art history should be chosen in consultation with the Supervisor.

Two additional full-course equivalents are to be chosen in consultation with the Supervisor.
Fine Art History

FARA10F Ancient Art and Architecture
Art and architecture from Archaic Greece to the decline of Rome.
A survey of major monuments and trends in Greece and Rome. Emphasis on archaic sculpture, classical architecture and sculpture, Hellenistic art, Roman Republican portraiture and Imperial architecture. One two-hour lecture per week. Visits to R.O.M. and A.G.O.
Exclusion: (FARA04)
Session: Winter Evening
M. Shaw
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FARA11S Medieval Art
A survey of the arts in Europe from the late Roman Empire to the end of the Gothic period. The study will consider architecture, sculpture, painting. Illumination and the minor arts.

The objective of this course is to familiarize students with European artistic traditions from their origins in an early Christian, Mediterranean context through their development under the influence of classical, Byzantine, Moslem and pagan forms, to the triumphal creation of an entire new iconographic and stylistic language which determined the nature of renaissance art. Texts will include: E. Kitzinger, Early Medieval Art, R. Krautheimer, Early Christian and Byzantine Architecture, O. von Simson, The Gothic Cathedral, and others.

Two hours of slide lectures weekly and trips to the Royal Ontario Museum. Exclusion: (FARB24)
Session: Winter Day
M. Gervers

FARA12F Renaissance and Baroque Art
A survey of architecture, painting and sculpture from ca. 1400 to 1750.
A selection will be made of the most important monuments, primarily from Italy and the Netherlands. These will include works by such artists as Leonardo da Vinci, Michelangelo, Rembrandt, Rubens and Remini. Two hours of lectures per week; class participation is encouraged. Slides and films will be used and visits will be made to the A.G.O. and the R.O.M. The course texts are Frederick Hartt, Art, A History of Painting, Sculpture, Architecture: Vol. II, Renaissance, Baroque, Modern World. New York: Abrams, 1976.
Exclusion: (FARA03), (FARA04)
Session: Winter Day
G. Scavizzi

FARA13S Modern Art: 1750 to the Present
A selective study of Western European and North American painting, sculpture and architecture from the period of the French Revolution to the Second World War.
Works of art will be chosen and analyzed on the basis of their key roles in the rapid succession of artistic movements during this period. By a thorough study of these works, the course will attempt to present a comprehensive view of artistic conditions in major centres throughout the modern Western world.
Exclusions: (FARA03), (FARA04)
Session: Winter Day
R. Siebelhoff

FARB02S Wallpainting in Ancient Egypt and the Aegean Bronze Age (ca. 3200 B.C. - ca. 1200 B.C.)
The course will trace the development of painted mural decoration in tombs and temples of Ancient Egypt and in houses and palaces of Crete, other Greek islands, and mainland Greece.

Modes of representation, techniques and possible inter-relationships between these areas will also be examined. There will be one two-hour lecture weekly.
Exclusion: (FARB02)
Session: Winter Day
M. Shaw
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FARB11F Gothic Architecture
A development of Gothic architecture from the beginning of the thirteenth century to the middle of the fourteenth century.
Emphasis will be placed upon Notre-Dame in Paris, upon the cathedrals of Chartres, Reims, and Amiens, and upon a select number of monuments in England. A discussion of the sculptural programs of the said cathedrals will be included. One two-hour lecture per week. Course texts: O. Von Simson, The Gothic Cathedral, Princeton 1962.
Session: Winter Day
M. Gervers

FARB15F Renaissance in Italy
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 of 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 Florence, Rome, Venice (artists discussed: Leonardo da Vinci, Raphael, Michelangelo, Titian).
Exclusions: (FARB93), (FARB53)
Session: Winter Day
G. Scavizzi

FARB16Y The Arts in Northern Europe ca. 1400-1500
A study of the Northern Renaissance concerned with the emergence of the Burgundian Netherlands as a cultural unit.
The course will emphasize the development of painting from van Eyck to Hugo van der Goes against a background of patronage from court and city. The first few lectures will deal with the geography and topography of the Burgundian Lands around 1400 and will proceed with a historical survey of the area during the late fifteenth century, including aspects of the interaction between Flanders and Northern France. Then the theme of Netherlandish painting will be explored by looking at some of the major manuscript workshops and the panel painters who followed. The works presented will be used to illustrate some of the problems faced by art historians, such as attribution of works upon documentary, stylistic and iconographic grounds.
There will be two hours of lectures per week with class participation encouraged. Use of slides and films, visits to the A.G.O., R.O.M. The course texts: Ch. Cutler, Northern Painting, New York, (softcover edition) 1968.
Exclusion: (FARB22)
Session: Winter Evening
R. Siebelhoff

FARB41F Architecture in the Western World Since 1750
An introduction to the history of architecture, landscape architecture and town planning in the modern period (i.e. since the middle of the eighteenth century).
The course concentrates on key monuments to illustrate some of the major issues in the man-made environment over more than two centuries and deals especially with aesthetic, stylistic, social, political, religious, technological and urbanistic factors in the evolution of various building types. Some background in the earlier history of architecture, in cultural history, in historical geography, or in urban studies is helpful. Recommended preparation: FARA12, FARA13
Session: Winter Day
D. Richardson

FARB46F Gauguin, Seurat, van Gogh, Cézanne
The painting and drawing of four pioneers of modern art.
The course offers a detailed study of the major post-impressionist artists, their roots in impressionism, the highly independent directions of their careers, and the establishment of artistic principles that extend far into the twentieth century. The class will meet weekly for a two-hour slide lecture with occasional films.
Exclusion: (FARB22)
Session: Winter Day
L. Carney

FARB47F Nineteenth Century Realism
A study of the most important artistic movement between Romanticism and Impressionism.
The aim of the Realist artist was to represent the real world in an objective and impartial way. Realism had major representatives in England and Germany, but its greatest flowering occurred in France between ca. 1840 and 1880. The course will trace the careers of Manet, Courbet, the Pre-Raphaelites in England, and several German artists. Bibliography includes Linda Nochlin, Realism (Penguin, 1971) and Linda Nochlin, Realism in Art 1848-1900 (Prentice-Hall, 1966).
There will be two hours of lectures per week with class participation encouraged. Slides and films will be used, and visits paid to the A.G.O. and, if possible, to the Albright-Knox gallery in Buffalo.
Session: Winter Day
R. Siebelhoff

FARB55F New York in the Twentieth Century
A study emphasizing the role of New York and its painters and sculptors from the early years to the present.
The course surveys art in New York as the city moved from a somewhat provincial position to a visible awareness of modern European art at the time of the Armory Show in 1913, and eventually became an international art centre after the Second World War.
There will be two-hour slide lectures each week, with class participation encouraged. The class will make a day trip to the Albright-Knox
Fine Art Studio

FAR14F Art Around 1900
The exploration of Symbolism and Art Nouveau with reference to the stylistic and literary origins. This study emphasizes the development in several centres such as Paris, Vienna and Munich. The coincidence of these developments will be researched, and the contribution of individual artists will be evaluated. Since literary prototypes of the visual images are of major importance they will be carefully looked at. Bibliography includes: Mario Praz, The Romantic Agony, London-New York, Oxford University Press, 1970 (There exist several editions); and Robert Schmutzler, Art Nouveau, New York, Abrams.

FAR11F Frans Hals, Rembrandt and Vermeer
An advanced examination of the work of the three principal masters of the seventeenth century in Holland.
This study of Dutch Baroque painting explores artistic developments in Haarlem, Amsterdam and Delft. The various styles will be considered from the point of view of the centre in which each artist worked and the generation to which he belonged. The course will also focus on subject matter, technique, outside influences and chronology. Lectures, slides, films and visits to galleries.
Prerequisite: One full-course equivalent at the B-level in Art History
Session: Winter Day
R. Siebelhoff

FAR12F Southern Baroque Art: Gianlorenzo Bernini
An historical study of Bernini's sculpture and architecture, and their roles in the social and religious life of 17th-century Rome. Bernini's rhetorical inventions will be analyzed as successful translations into art of Catholic ideals of the papacy and the Roman nobility. The relation of visual form and expressive intent, which ranged from pagan delight to mystical ecstasy, will be considered. Evaluation: research paper and research paper.
Prerequisite: One full-course equivalent at the B-level in art history
Session: Winter Day
P. Sohn

FAR10F Two and Three Dimensional Design
An introduction to the basic principles of visual design for the student interested in the visual arts, but not intending to pursue the Specialist Programmes.
The student will investigate basic principles in design and composition, developing a familiarity with both the verbal and visual vocabulary. There will be lectures, demonstrations and group critiques. The student will work in class and be given weekly assignments related to that work.
Three hours per week. Limited enrolment: 20
Session: Winter Day, Winter Evening
A. Hall

FARA90Y Foundation Studies in Studio
An introduction to basic problems in design and colour and the relation of these problems to the visual arts. There will be an emphasis on the class on each student's exploration and investigation of these problems.
There will be lectures, demonstrations and group critiques.
Exclusion: FARA70 and FARA71
Prerequisite: Students may pre-register but will not be admitted to the course unless granted permission of the instructor during the first week of classes. A portfolio must be submitted at this time.*
*Students who have completed FARA70 and FARA71 and who wish to enter the Specialist Programme will be given due consideration on submission of a portfolio on the last day of classes.
**Students who are not accepted into FARA90 will be transferred into FARA70 and FARA71 if they so wish.
Session: Winter Day, Winter Evening
J. Hoogstraten, A. Hall
FARB70F Introductory Drawing
An introductory course for students wishing to explore the techniques and concepts of drawing.
This course is designed to introduce the student to the potential inherent in drawing. Three hours per week of studio work including group and individual critiques. The student will be responsible for scheduling drawing sessions. Keeping a sketchbook and submitting multiple drawings at the end of the term. Enrollment limited according to space availability and permission of instructor. Lab fee $20.00
Prerequisite: FARA90 or permission of instructor
Session: Winter Evening
J. Hoogstraten

FARB75Y Introduction to Painting
An introduction to the principles and techniques of painting. Emphasis will be placed on experimentation and the investigation of the possibilities of painting. The student will be responsible for attending every class, keeping a drawing journal, and submitting multiple paintings at the end of the term. Enrollment limited according to space availability and permission of instructor.
Prerequisite: FARA90 or permission of instructor
Session: Winter Day
J. Hoogstraten

FARB77B Intermediate Painting I
A course designed to develop competence in the studio art of painting. The student will be responsible for attending every class, keeping a drawing journal, and submitting multiple paintings at the end of the term. Enrollment limited according to space availability and permission of instructor.
Prerequisite: FARA90 or permission of instructor
Session: Summer Day-Summer Arts Program
S. Witherslo

FARB80F Drawing from the Figure I
An introduction to the principles and techniques of drawing. Emphasis will be placed on experimentation and the investigation of the possibilities of drawing. The student will be responsible for attending every class, keeping a drawing journal, and submitting multiple drawings at the end of the term. Enrollment limited according to space availability and permission of instructor.
Prerequisite: FARA90 or permission of instructor
Session: Summer Evening-Summer Arts Program
S. Burgess

FARB81S Drawing from the Figure II
A continuation of FARB80. Students who have not taken FARB80 should consult the Supervisor. Lab fee $40.00
Enrollment limited according to space availability and permission of instructor.
Prerequisite: FARB74 or permission of instructor
Session: Summer Evening-Summer Arts Program
S. Burgess

FARB82F Introduction to Lithography
An introduction to lithography, focusing on the process of creating a lithograph. Emphasis will be placed on experimentation and the investigation of the possibilities of lithography. The student will be responsible for attending every class, keeping a drawing journal, and submitting multiple lithographs at the end of the term. Enrollment limited according to space availability and permission of instructor.
Prerequisite: FARA90 or permission of instructor
Session: Winter Day
D. Holman

FARB83S Intermediate Lithography
An extension of FARB82.
Prerequisite: FARA82 or permission of instructor
Corequisite: FARB74
Session: Winter Day
D. Holman

FARB84A Introduction to Etching
An introduction to etching, focusing on the process of creating an etching. Emphasis will be placed on experimentation and the investigation of the possibilities of etching. The student will be responsible for attending every class, keeping a drawing journal, and submitting multiple etchings at the end of the term. Enrollment limited according to space availability and permission of instructor.
Prerequisite: FARA90 or permission of instructor
Session: Summer Evening-Summer Arts Program
B. Schechter

FARB85B Intermediate Etching
A studio course designed to expand the student's technical knowledge and skills in etching. Emphasis will be placed on experimentation and the investigation of the possibilities of etching. The student will be responsible for attending every class, keeping a drawing journal, and submitting multiple etchings at the end of the term. Enrollment limited according to space availability and permission of instructor.
Prerequisite: FARA90 or permission of instructor
Session: Summer Day-Summer Arts Program
O. Tamasanek

FARB90F FARB91S Supervised Studies in Studio: Intermediate Level
These courses may be in any of the fields of drawing, painting, and printmaking. Students are required to submit a portfolio along with their proposal outlining intended research. The courses are intended for students who can demonstrate the need to pursue further study in any of the above areas. Students are also required to meet with instructors on a regular basis for critiques of work in progress.

Students may substitute for FARB90 for a fee of $45.00. Limited enrollment: 10
Prerequisites: FARA90 or permission of instructor
Session: Winter Day
D. Holman

FARB92Y Introduction to Sculpture: Concepts
An investigation of current attitudes toward sculpture. Students will be required to produce a number of works in response to the responses and other sculptural concepts. Texts will include Rosalind E. Krauss, "Passages in Modern Sculpture" and Gregory Barndt's "Minimal Art: A Critical Anthology." Limited enrollment: 15
Prerequisite: FARA90 or permission of instructor
Session: Winter Day
J. Hoogstraten

FARB21Y Advanced Studio: Individual Study in Painting
This course is only for students who would like to develop a further mature painting ability. Students must continue to develop the necessary skills in the studio. Limited enrollment: 10
Prerequisite: FARA90 or permission of instructor
Session: Winter Day
J. Hoogstraten
**FARC22Y** Advanced Studio: Individual Study in Printmaking
The purpose of this course is to give the promising student an opportunity to work independently while receiving advanced criticism. The content, method, and evaluation of the course will be decided upon by both the student and instructor. Limited enrolment: 5.
Prerequisite: Permission of instructor must be obtained by the first week of classes.
Session: Winter Day
D. Holman

**Courses Not Offered in 1983-84**

- **FARB04S** Archaic Greek Sculpture (650-480 B.C.)
- **FARB05S** Classical Greek Sculpture (480-300 B.C.)
- **FARB06F** Ancient Rome
- **FARB10F** Carolingian and Romanesque Art and Architecture
  Prerequisite: FARA11 Highly recommended
  Corequisite: FARA11 Highly recommended
- **FARB19F** Michelangelo
  Exclusion: (FARB32)
- **FARB27F** Baroque Painting in Southern Europe 1600-1650
  Exclusions: (FARB39Y), (FARB44Y)
- **FARB29Y** Baroque Painting in the Netherlands
  Exclusion: (FARB17)
- **FARB37F** From David to Delacroix
  Exclusion: (FARB13)
- **FARB43S** Impressionism
  Exclusion: (FARB21), (FARB31)
- **FARB48F** Art from 1900-1960
  Pre- or Corequisite: FARA13Y recommended but not required
- **FARB61Y** The Canadian Landscape
- **FARB77B** Intermediate Painting II
  Prerequisite: FARB76 or permission of instructor.
- **FARC05F/S** Classical Art
- **FARC06F/S** Early Medieval Art
- **FARC07F/S** Medieval Art
- **FARC08F/S** The Renaissance
- **FARC09F/S** Advanced Studies in the High Renaissance
  Prerequisite: One full-course equivalent at the B-level in Art History.
- **FARC10F/S** Italian Renaissance Architecture
  Prerequisite: One full-course equivalent at the B-level, by permission of instructor.
- **FARC13F/S** Eighteenth and Nineteenth Century

**FARC15F/S** Cubism and Related Movements
Exclusion: (FARB52)
Prerequisite: FARB46 or FARB48, and at least one additional half-course in art history.
Session: Winter Day

**FARC16F/S** Expressionist Trends
Pre- or Corequisite: FARB46 or FARB48 and at least one additional half-course in Art History.

**French**

Discipline Representative: J. Kinness
The courses offered in French are designed primarily for students with Grade 13 French who wish to continue their study of the language and of the literature of France and French Canada. Students without Grade 13 French or an equivalent background who wish to qualify for FREN36, or simply to begin their study of the subject, will find opportunities in FREN A-level language courses offered throughout the year and in the summer at the Scarborough Language Institute. FREN606 serves to consolidate the previous experience of students in the understanding and use of the language.

Courses in the French language are now available in two distinct modes:

- **The regular courses**, offered during the Winter session, which provide language instruction on a three-to-four-hour per week basis (A06Y, A15Y, B06Y, B18Y and C06Y);
- **The immersion courses**, available in the Summer term and which are described in detail in the 1983 Scarborough Language Institute Information Package.

Providing prerequisite requirements are met, courses may be combined in a variety of ways; however, students intending to pursue a Specialist Programme in French are invited to consider taking both FREN606 and FREN602 in their first year, or, if they enrol in intensive courses, to combine FREN606 with FREN616 and FREN602Y. They may then choose courses from within the following groups:

1. the mainstreams of French and French Canadian literature;
2. the genres: poetry, theatre and novel in various periods;
3. advanced language;
4. language practice courses.

**Note:** Students may include only one Civilization course for credit in the three programmes named above; they may thus take for programme credit EITHER FREN20 OR FREN21 and/or FREN33.

Students should also consult entries under Language and Literature and Modern Languages in the College Calendar.

Students intending to pursue their studies in French on the graduate level are advised that a knowledge of Latin is required by the Graduate Department of French of the University of Toronto and by most graduate departments of French.
Specialist Programme in French
Supervisor: J. Curtis (284-3186)
Students should complete twelve full-course equivalents, including:
1. the sequence FREA06Y (FREA01Y), FREB16Y (FREB01Y), FREC06Y (FREC01Y), except where substitution of other French courses is permitted for students with special proficiency in the French language.
2. one of the following courses: FREB25Y, FREB41Y-FREB43S, FREB4BY, FREC06Y.
3. three full-course equivalents in French and French Canadian Literature, one of which should deal with a period prior to 1800 and one with a period after 1800.
4. four full-course equivalents at C level (or from the 300 and 400 series courses offered on the St. George Campus). Both FREC06Y (FREC01Y) and supervised research courses may count toward this requirement.
5. It is recommended that the student include in his/her Programme one full-course equivalent from the series FREC02Y-C07, FREC09Y (Supervised research involving individual research in a specific area). (Such a course may also count toward satisfying requirements in (2), (3) and (4) above.) Normally, no more than two full-course equivalents in the area of supervised research may be credited for requirements for the Specialist Programme.
6. Two full-course equivalents outside French but from related areas of study, to be agreed upon in consultation with the Supervisor.
7. The following may not count toward a Specialist Programme:
   1. any A-level French course except (FREA01Y) and (FREA02Y).
   2. more than three courses from the series FREA42s to FREA46s, (specialized seminars) offered on the St. George Campus.
   3. FREB18 (Commercial French).

Major Programme in French Language and Literature
Supervisor: J. Curtis (284-3186)
Students should complete seven full-course equivalents, including:
1. FREA06Y (FREA01Y), FREB16Y (FREB01Y) (except where substitution of other French courses is permitted for students with special proficiency in the French language).
2. one of the following courses: FREB25Y, FREB41Y-FREB43S, FREB4BY, FREC06Y (FREC01Y), FREC99Y, FREC16Y (FREC09Y).
3. three full-course equivalents from the following courses in French and French Canadian literature and civilization.
4. one additional full-course equivalent in French, to be chosen in the area either of language study or of literature and civilization.
5. students may include in their Major Programme a maximum of one supervised reading course.
6. the following may not count toward a Major Programme in French Language:
   1. any A-level French course except (FREA01Y) and (FREA02Y).
   2. Language requirements will be waived by permission of the Supervisor in the case of students judged to have highly 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.

FREA06Y Introductory French
A basic course in spoken and written French for students with very little or no background in the language.
Four class hours and one language laboratory hour per week. Students wishing to take this course will be asked to take a placement test to identify those who may have the necessary competence for FREA 16. Exclusion: FREA03O
Session: Winter Day, Summer Day (see FREA03O in the 1983 Scarborough Language Institute Information Package). C. Evans and staff

FREA07S Elementary Conversation I
Intensive practice in spoken French through controlled situational oral work. Offered only in the immersion programme of the Scarborough Language Institute, this course consists of oral class work and participation in a choice of cultural and/or artistic activities involving the use of the French language.
Exclusion: FREA06
Co-requisite: FREA06
Session: Summer Day, Summer Day (see the 1983 Scarborough Language Institute Information Package). L. Mignault

FREA16B Elementary French
Spoken and written French studies for students with some background in the language but without Grade 13 High School French. This is an intensive course using an innovative teaching approach which stresses effective oral communication skills while developing reading and writing skills. This course is given primarily at the beginning of the school year.
Exclusions: Grade 13 French or equivalent. Prerequisite: FREA06. For those students who lack the prerequisite, admission to this course is through a placement test to be held soon after the beginning of classes.
Session: Summer Day (see the 1983 Scarborough Language Institute Information Package). L. Mignault

FREA17S Elementary Conversation II
Intensive practice in spoken French through controlled situational oral work. This course consists of oral class work and participation in a choice of cultural and/or artistic activities involving the use of the French language. Some background in French is required.
Exclusion: FREA06
Co-requisite: FREA16
Session: Summer Day (see the 1983 Scarborough Language Institute Information Package). L. Mignault

FREB02Y Introduction to Literary Analysis
An introduction to methods of critical analysis through the study of selected works in the fields of French drama, fiction and poetry of the sixteenth and seventeenth centuries.
FREB02Y is intended to prepare the student for more advanced study in French and French Canadian literature. It deals with a wide range of themes, stories and genres, and can also provide for the non-specialist, an introduction to several major writers of the modern period. Two hours of classes a week are devoted to lecture explications, class discussion and student presentations. Prerequisite: Grade 13 French or equivalent or FREA16 (FREA03O). Co-requisite: FREB06 (FREA01Y) Session: Winter Day. P. Moes and staff

FREA18Y Elementary French
Spoken and written French studies for students with some background in the language but without Grade 13 High School French. Four class hours per week are devoted to the study of written and spoken French. There are also one laboratory period a week specifically designed for oral-aural practice. This course prepares students to enter FREA06. Textbooks: Elan, by Y. Lorand, and accompanying Cahier de laboratoire. Regular class attendance and participation are essential. Exclusion: Grade 13 French or equivalent. Prerequisite: FREA06. For those students who lack the prerequisite, admission to this course is through a placement test, to be held soon after the beginning of classes. Session: Winter Day. F. Mignault-Principi and staff

FREA18A Introduction to Literary Analysis
An introduction to methods of critical analysis through the study of selected works in the fields of French drama, fiction and poetry of the sixteenth and seventeenth centuries. FREB02Y is intended to prepare the student for more advanced study in French and French Canadian literature. It deals with a wide range of themes, stories and genres, and can also provide for the non-specialist, an introduction to several major writers of the modern period. Two hours of classes a week are devoted to lecture explications, class discussion and student presentations. Prerequisite: Grade 13 French or equivalent or FREA16 (FREA03O). Co-requisite: FREB06 (FREA01Y) Session: Winter Day. P. Moes and staff
FREB06B Language Practice I
This course is designed to help students reinforce and develop those language skills (writing, reading, understanding and speaking) which are necessary for taking advantage of upper level courses. This is an intensive course designed to bring students to the level of entering FREB06 or FREB16 in one term rather than two. The class meets for grammar review, vocabulary-building exercises, reading and discussion of texts, debates and exercises that class and instructor may choose to devise. Exclusion: FREB06.
Prerequisite: Grade 13 French or FREB06 or FREB06 or Grade 13 French
Session: Summer Day (see the 1983 Scarborough Language Institute Information Package)
L. Mignault

FREB168 Language Practice II
A continuation of FREB06/0, including grammar, composition, oral practice, readings and language laboratory work. Not normally open to native speakers of French.
This is an intensive course designed to bring students to the level of entering FREB06 or FREB16 in one term rather than two. Active and varied methods are used in an attempt to free students from the inhibitions frequently associated with language learning and to stimulate their interest and participation. This course is concerned with the development of fluency, accuracy of expression, and style. Exclusion: FREB06.
Prerequisite: FREB06 or FREB01 or equivalent
Session: Summer Day (see the 1983 Scarborough Language Institute Information Package)
L. Mignault

FREB16Y Language Practice III
A continuation of FREB06/0, including grammar, composition, oral practice, readings and language laboratory work. Not normally open to native speakers of French.
This course is concerned with the development of fluency, accuracy of expression, and style. Classes meet three times per week. Please note that opportunity is provided to take this course in an intensive version in the Summer session (see FREB165).
Exclusion: FREB06.
Prerequisite: FREB06 (FREB01 or equivalent)
Session: Winter Day, Winter Evening
J. Bancroft and staff

FREB07S Intermediate Conversation I
Intensive practice in the spoken language through controlled situational oral work and discussion groups. Offered only in the academic programme of the Scarborough Language Institute, this course consists of oral class work and participation in a choice of cultural and/or artistic activities involving the use of the French language. Exclusion: FREB04 (FREB05)

FREB17S Intermediate Conversation II
Intensive practice in the spoken language through controlled situational oral work and discussion groups. Attention will be given to the comprehension of major regional variants as they are found in the Province of Quebec. As many opportunities as possible will be provided to practice the language and develop a mastery of vocabulary to enable the student to acquire a reasonable degree of confidence when speaking about everyday life and contemporary topics.

One hour weekly for lecturing, vocabulary building and testing; two hours weekly for oral practice. Students should arrive to have no other courses scheduled during the six hours allotted for this course on the timetable.
Exclusion: FREB24Y.
Prerequisite: FREB06 or FREB01
Session: Winter Day, Summer Day (see the 1983 Scarborough Language Institute Information Package)
F. Magnier and staff

FREB18Y Commercial French
The French language in a commercial or economic context.
This course is of interest to students in French, Business and Economics Majors, and to all who wish to improve their skills, in preparation for entry into a specialized area of the job market. In order to provide the student with the basic elements of commercial techniques as practised in the business communities of Quebec and France, the course will consist of theoretical and practical sessions. Class meetings will be devoted to correspondence writing and to exercises that include the vocabulary and structures involved in the language of business.
Note: This course may not count towards a Specialist Programme in French, or the Major Programme in French Language and Literature.
Prerequisites: FREB60, or permission of the instructor.
Session: Winter Day
W.J. Bancroft and staff

FREB21F France Today
An introduction to the study of political, social, and intellectual developments in France since 1848.
The topics to be discussed will include France and the European Community; France and the Francophone world; the political parties; the unions; the socialists experience; decentralization; decolonization; the educational system; the media; cultural values. This course is designed to interest both the specialist and the non-specialist. In particular, it provides valuable background for advanced literature courses (and for F4E33S).
Prerequisite: FREB06
Session: Winter Day
F. Magnier

FREB22Y French Thought and Literature in the Age of Enlightenment (1715-1789)
An introduction to French Literature of the eighteenth century.
This course deals with the nature of the French Enlightenment and the way in which its principal ideas and ideals find expression in works of fiction as well as non-fiction. Texts include works by the philosophes Montesquieu, Voltaire, Rousseau, Voltaire (Candide), Voltaire (Discours sur l'Inégalité), by the novelists Prévert (Manon Lescaut), and by the dramatist Beaumarchais (le Barbier de Sceville). An anthology, The Age of Enlightenment, by Fellows and Torrey (eds.), provides a broad choice of additional texts.
Prerequisite: FREB06 (FREB01)
Session: Winter Evening
P. Mosco

FREB26Y The Romantic Current in French Literature
A study of the period from 1800 to 1860, with emphasis on the major writers of the period.
Some introductory lectures will be devoted to the origins of Romanticism, the spread of Romanticism in Europe, historical events and social changes which contributed to the formation of the Romantic Movement. The remainder of the course will be taken up with discussion of the major writers and their works.
Prerequisite: FREB06 (FREB01)
Session: Winter Day
G. Tremblay

FREB38F The Theatre of France Canada
A study of the dramatic literature of France since the 1860's. A brief introduction to the history of the Theatre in France in this country is provided, but the required texts all come from the period of the past thirty years and are intended to reflect the cultural and political renaissance of Quebec and Acadia. Texts will probably include: Créatifs, Tit-Coq, Dubé, Un simple Soldat, Loranger, Une Maisson, un Jour, Barbeau, Jolivet-Mam d'Amour, Tremblay, Les Belles-soeurs, Maillet, La Sagouene, Boucher, Les Rees ont soif.
Prerequisite: FREB06 (FREB01) or equivalent
Session: Winter Day
L.E. Doucette
FREB39S Workshop in Modern French Theatre
A discussion of performing techniques combined with practical work in staging and acting modern French plays. This will result in the production of at least one play.
Prerequisite: FREB16 (FREB01) or equivalent language ability.
Session: Summer Day (see the 1983 Scarborough Language Institute Information Package)
L. Mignault

FREB40F French Classicism: Poetry and Prose
The non-dramatic literature of the seventeenth century: satire, lyric poetry, the essay, the fable and the novel. Attention will be given to several of the major figures whose influence on European as well as on French thought and literary practice was profound and lasting. These include Malherbe, Pascal, Boileau, La Fontaine, La Rochefoucauld, Le Bruyère and Mme. de Lafayette.
Classes will be conducted as seminars in French.
Session: Winter Day
L. Mignault

FREB41S French Classicism: The Theatre
A study of the development of classical tragedy and comedy in the seventeenth century, with emphasis on themes and dramatic structure as seen through the major plays of the period.
The course concentrates on a few selected plays by Corneille, Molière and Racine, considered both as works of art and as the literary expressions of a specific society.
Classes will be conducted as seminars in French.
Session: Winter Day
J. Curtis

FREB42F General History of the French Language
The evolution from Latin to Modern French. Topics will be chosen from the history of French, from its origin in Latin to the present; reference will be made to social and regional variations in the standard language as well as to the influence of other languages on its development.
Prerequisite: FREB06 (FREA01). Students specializing in French language and literature are urged to take FREB43S as a companion course.
Session: Winter Evening
J. Kirkeess

FREB43S The French Language in Canada
The history and present state of the French Language in Canada.
Topics will be chosen from the history of the expansion of French beyond Europe (with particular reference to North America) and the development and current status of French in Canada.
Prerequisite: FREB06 (FREA01). Students specializing in French language or literature are urged to take FREB42F as a companion course.
Session: Winter Evening
J. Kirkeess

FREB44Y Theoretical and Practical Phonetics
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.
Prerequisite: FREB06 (FREA01)
Session: Winter Day
G. Tremblay

FREB49Y The Twentieth Century: The Search for Identity
A study of the social, political and philosophical ideas of such writers as Camus, Sartre, Malraux, Nizan, Céline, Beckett, Genet and Saint-Exupéry.
Attention will focus on the thematic content of specific texts. Novels will not necessarily be studied in chronological order, although some historical background will be provided.
Students interested in taking FREB49Y might wish to consult a general account of the twentieth century French novel, e.g., An Age of Fiction by Geneviève Bré and Margaret Guitton.
Exclusion: (FREB35)
Prerequisite: FREB06 (FREA01)
Session: Winter Day
S. E. Mitler, L. B. Mignault

FREB80F Images of Women in French Literature
A study of women characters in French Literature.
This course consists of an analysis of the portrayal of women and of the concept of femininity as presented by prominent male authors from the eighteenth century to the 20th century.
On the one hand, stereotyped roles assigned to female characters (wife, mother, sexual object, etc.) will be traced, examined, and discussed; on the other hand, an effort will be made to discover and understand the dominant women who have come to embody the male imagination and the functions these women serve (the shrew, the femme fatale, etc.).
Readings will include plays and novels by Molière, Flaubert, Maupassant, Claudel, Mauriac and Genet.
Exclusion: HUM462
Prerequisite: FREB06 (FREA01)
Session: Winter Day
C. Bertrand-Jennings

FREB81S Women's Consciousness in French Literature
This course will attempt to trace the history of women's role in French literature and to analyze the concept of femininity as experienced and described by prominent female authors from the eighteenth century to the present. Authors studied will include LaFayette, Sand, Colette, Sarraute, de Beauvoir, and Wittig.
The class will meet for two hours per week; lectures and discussions will alternate. Both will be conducted in French. Active participation in class is required.
Prerequisite: FREB06 (FREA01)
Session: Winter Day
C. Bertrand-Jennings

FREC06B Language Practice III
A continuation of FREB16 (FREB01), including reading, grammar, composition, translation and stylistic exercises, discussion and/or debates. Emphasis in this course will be put on the oral and written components of French through (a) the study of grammar, (b) the reading and analysis of texts in modern prose, (c) the writing of essays in French, (d) discussions in the classroom. The two required textbooks (J. Darbelnet, Pensée et Structure, Contes modernes 3rd edition), being used in conjunction, are intended to reinforce the students' proficiency in the language.
Exclusion: (FREC01)
Prerequisite: FREB16 (FREB01)
Session: Winter Day (see the 1983 Scarborough Language Institute Information Package)
Part-time students who are required to take FREC06B in order to complete their programme, but are unable to do so during the session provided, are advised that the equivalent course, FRE371, is available to them Winter Evening at Woodsworth College, St. George Campus.
L. Mignault

FREC06F Language Practice III
A continuation of FREB16 (FREB01), including reading, grammar, composition, translation and stylistic exercises, discussion and/or debates. Emphasis in this course will be put on the oral and written components of French through (a) the study of grammar, (b) the reading and analysis of texts in modern prose, (c) the writing of essays in French, (d) discussions in the classroom. The two required textbooks (J. Darbelnet, Pensée et Structure, Contes modernes 3rd edition), being used in conjunction, are intended to reinforce the students' proficiency in the language.
Exclusion: (FREC01)
Prerequisite: FREB16 (FREB01)
Session: Winter Day
Part-time students who are required to take FREC06F in order to complete their programme, but are unable to do so during the session provided, are advised that the equivalent course, FRE371, is available to them Winter Evening at Woodsworth College, St. George Campus.
G. Tremblay

FREC02F

FREC03S

FREC04F

FREC05S

FREC07S Supervised Reading (see FREC09Y for description)
FREC90Y Supervised Reading
These courses offer the student an opportunity to carry out independent study of an advanced and intensive kind, under the direction of a faculty member. Students and instructor will consult the course's objectives, content, bibliography, and methods of approach. The material studied should bear some relationship to the student's previous work and should differ significantly in content and/or concentration from topics offered in regular courses.
Interested students should contact Prof. S. Mitter.
Prerequisite: One B-level course in the group FREQ16 - FREQ81, excluding FREQ17.
Session: Winter Day

FREC90Y Problems in Translation
A comparative study of expression in English and French, including practice in translating and analysis of selected examples of the translator's art.
Basic terminology and concepts of comparative stylistics will be studied in Stylistique comparée au français et de l'anglais by Viny and Darbelnet (pub. Beauchemin; text and workbook). On the practical side, there will be translating and discussion of passages in English and French representing various styles and levels of expression: formal, colloquial, technical, literary, journalistic. Two hours a week are devoted to discussion and practical work.
Prerequisite: FREQ16 (FREQ81)
Session: Winter Day
J. Curtis

FREC16B Advanced French
A language practice course which covers the FREQ80 - FREQ81 - FREQ36 sequence; it includes reading and composition, translation and stylistics, oral reviews and debates. Information will be available at a later date in Room H332A.
This course is offered only in the immersion programme of the Scarborough Language Institute.
Exclusion: (FREC99)
Prerequisite: FREQ80 (FREC01)
Session: Summer Day (see the 1983 Scarborough Language Institute Information Package)
L. Mignault

FREC25Y Literature of the Renaissance
A study of sixteenth-century French literature, including Rabelais, Montaigne and the major poets.
During the fall term, the major schools of poetry and their exponents (Marot, Ronsard, Du Bellay, d'Aubigné) will be studied. Although some of the texts will be read in modernized versions, a good deal of time will be devoted at first to introducing the student to sixteenth-century French. The second term is devoted to the works of Rabelais and Montaigne. Texts will include Ronsard, Poèmes Du Bellay, Défense et Illustration and poetical works; Rabelais, Oeuvres complètes; Montaigne, Essais. For useful background reading, see J. Cruikshank, French Literature and Its Background. I. The Sixteenth Century; and D. Stone, France in the Sixteenth Century.
Prerequisite: One B-level course in the group FREQ16 - FREQ81, excluding FREQ17.
Session: Winter Day
J. Curtis, L. E. Doucette

FREC35S French-Canadian Poetry
The development of Canadian poetry in French from the middle of the seventeenth century to the present, with emphasis on the contemporary period.
After the initial four lectures in which a general introduction to prosody and to the origins of French-Canadian poetry is provided, this course is heavily weighted towards the twentieth century. Much emphasis will be given to modern poets such as Saint-Denis Garneau, Anne Hébert and Alain Grandbois. Texts will include L. Maillot and P. Népveu, La Poésie québécoise: Anthologie, and paperbacks editions of works by various individual authors, depending on availability.
Prerequisite: One B-level course in the group FREQ16 - FREQ81, excluding FREQ17.
Session: Winter Day
L. E. Doucette

FREC33S French Civilization: Continuity and Change
Some of the themes of leading French thinkers concerning the development of France in the past, present, and future. This course is directed to students who wish to develop a broad historical overview of the social events and literary movements they normally study in period and genre fragments. The first half of the course will take on issues of French culture in the Middle Ages, the Renaissance, and the Romantic era, two of the most important periods, the rational and individualist tractions, and then be tailored to how their mutation through the centuries developed as a focus through which to view, in the second half of the course, contemporary French issues such as technological progress, superpower alternatives, mass consumption and the safeguarding of the quality of life.
Prerequisite: One B-level course in the group FREQ16 - FREQ81, excluding FREQ17.
Session: Winter Day
W. J. Bancroft

FREC30Y Modern French Poetry from Baudelaire to Valéry
A study of such major nineteenth-century poets as Baudelaire, Gautier, Verlaine, Mallarmé and Rimbaud. Twentieth-century poets will include several major figures such as Apollinaire, Pujol, Breton and Valéry. Emphasis will be placed on the characteristics and aspects of French poetry and on poetic analysis rather than historical development.
Prerequisite: One B-level course in the group FREQ16 - FREQ81, excluding FREQ17.
Session: Winter Day

Courses Not Offered in 1983-84
FREB20Y History of French Civilization
Introduction to French Linguistics
Prerequisite: FREQ06 (FREQ80)
FREB25Y French Drama of the Eighteenth Century
Prerequisite: FREQ06 (FREQ80)
FREB30F French Theatre of the Early Modern Period
Prerequisite: FREQ06 (FREQ80)
FREB31S Contemporary French Theatre: The Theatre and the Absurd
Prerequisite: FREQ06 (FREQ80)
FREB32F The Writer and Nineteenth-Century Society
Exclusion: (FREQ10)
Prerequisite: FREQ06
FREB33S Readings in Nineteenth-Century French Fiction
Prerequisite: FREQ06
FREB34Y From Romanticism to Naturalism
Exclusion: (FREQ32; FREQ83)
FREB36F French-Canadian Novel to 1945
Prerequisite: FREQ06 (FREQ80)
FREB37S French Canadian Novel since 1945
Prerequisite: FREQ06 (FREQ80)
FREB70Y The Twentieth Century: In Search of the Novel
Prerequisite: FREQ06 (FREQ80)
FREC10S Textual Analysis
Prerequisite: One B-level course in the group FREQ16 - FREQ81, excluding FREQ17
FREC22Y Introduction to Medieval French Language and Literature
Prerequisite: One B-level course in the group FREQ16 - FREQ81, excluding FREQ17
FREC23S The French Novel in the Seventeenth Century
Prerequisite: One B-level course in the group FREQ16 - FREQ81, excluding FREQ17
FREC24F The French Novel in the Eighteenth Century
Prerequisite: One B-level course in the group FREQ16 - FREQ81, excluding FREQ17
FREC34S Cross-currents in Contemporary French Fiction
Prerequisite: One B-level course in the group FREQ16 - FREQ81, excluding FREQ17
Geography

Assistant Chairman: E. C. Reiph

The Geography curriculum includes courses on diverse topics having to do with the development of landforms, the evolution and experience of urban and rural landscapes, the management of natural resources, and the spatial expression of economic processes. It therefore offers students a variety of potential themes which can be followed either separately or in combination towards a B.A. or B.Sc. degree.

The Specialist and Major Programmes in Geography are designed to give students the flexibility to choose courses that relate to their own interests while providing coherence and direction in course sequences and combinations. These Programmes are intended to develop not only geographical concepts but also skills such as cartography and statistical analysis. They provide students with a sound knowledge of the discipline and an adequate basis for a career, whether in planning, business, teaching, or various government agencies.

Specialist Programme in Geography

Supervisor: J. Miron (284-3130)

The Specialist Programme in Geography offers the opportunity to explore some aspect of the discipline in considerable depth without sacrificing the breadth that characterizes the discipline.

It is possible to complete a Specialist Programme in Geography by following one of two options:

1. Human Settlements

The Human Settlements option comprises courses that have to do especially with urban and rural development and planning, while the Environmental Geography option is concerned with environmental management issues and the physical systems which underlie them. These two options are by no means mutually exclusive; several courses are listed in both of them and students will be encouraged to take courses from the option other than the one they have selected. However, students who wish to take a B.Sc. must follow the Environmental Geography option.

OPTION A

The requirements for this Programme are two full-course equivalents which must include:

1. GGRADA04Y and GGRAS0Y
2. One full-course equivalent from GGRB30F, GGRB31S, and GGRD24F/S
3. GGRD12F/S

4. At least three full-course equivalents from GGRB01Y, GGRB02Y, GGRB03Y, GGRB04Y, GGRB05Y, GGRB06Y, GGRB07Y, GGRB08Y, GGRB09Y, and GGRB10Y
5. At least two and one-half full-course equivalents from GGRB01Y, GGRB02Y, GGRB03Y, GGRB04Y, GGRB05Y, GGRB06Y, GGRB07Y, GGRB08Y, GGRB09Y, and GGRB10Y

6. Two full-course equivalents in disciplines other than Geography agreed upon in consultation with the Supervisor.

OPTION B

Environmental Geography

The requirements for this Programme are two full-course equivalents which must include:

1. GGRB04Y and GGRB05Y
2. One full-course equivalent from GGRB30F, GGRB31S, and GGRD24F/S
3. GGRD12F/S

4. At least three full-course equivalents from GGRB01Y, GGRB02Y, GGRB03Y, GGRB04Y, GGRB05Y, GGRB06Y, GGRB07Y, GGRB08Y, GGRB09Y, and GGRB10Y
5. At least two and one-half full-course equivalents from GGRB01Y, GGRB02Y, GGRB03Y, GGRB04Y, GGRB05Y, GGRB06Y, GGRB07Y, GGRB08Y, GGRB09Y, and GGRB10Y

6. Two full-course equivalents in disciplines other than Geography agreed upon in consultation with the Supervisor.

Major Programme in Geography

Supervisor: J. Miron (284-3130)

The Programme aims to introduce students to the fundamentals of the discipline, and to provide the opportunity to explore some of the wide range of specialized aspects of the field. The Programme may be taken as a single concentration within a three-year degree or in combination with another Major Programme in a related subject area such as Economics, Biology, or History. It is also an appropriate supplement to Specialist Programmes in these areas.

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

1. GGRB04Y and GGRB05Y
2. Either GGRB30F or GGRB31S

3. At least two full-course equivalents from Geography B-level courses, other than GGRB30F, GGRB31S
4. At least two full-course equivalents from GGRB30F, GGRB31S, GGRD01F/S, GGRD02F/S, GGRD03F/S, GGRD04F/S, GGRD05F/S, GGRD06F/S, GGRD07F/S, GGRD08F/S, GGRD09F/S, GGRD10F/S, and GGRD11F/S

5. At least two and one-half full-course equivalents from GGRB01Y, GGRB02Y, GGRB03Y, GGRB04Y, GGRB05Y, GGRB06Y, GGRB07Y, GGRB08Y, GGRB09Y, and GGRB10Y

6. Two full-course equivalents in disciplines other than Geography agreed upon in consultation with the Supervisor.

GGRADA4Y The Nature of Human Geography

Comparison of the major approaches to human geography - historical process, spatial organization, resources, environment, and landscape and culture.

The course aims to identify and discuss some of the fundamental concepts of human geography, and to demonstrate the nature of the major approaches to the subject. The course consists of four main sections: (i) human settlements and urbanization, (ii) spatial patterns and disparities, (iii) environmental and resource use and abuse, (iv) modern landscapes and urban design.

Session: Winter Day

E. C. Reiph

GGRAS0Y Introduction to Physical Geography

An introduction to principles of physical geography. The course is designed for specialists in geography but is also suitable for non-specialists interested in obtaining some introduction to physical geography. The course is designed to introduce students to the basic physical environmental systems operating at the surface of the earth, the interactions between systems and the impact of man upon such systems.

The content should be of general interest to students in both the physical and life sciences.

Session: Winter Day

B. Greenwood

GGRB01Y Geography of Resources

Problems of resource use with particular reference to their environmental setting: (i) definition and classification of resources, (ii) principal problems relating to agricultural resources, (iii) specific aspects of the use of non-agricultural resources, (iv) an examination of the use, misuse, and abuse of resources.

Resource issues are examined in two broad contexts: global resource problems and policies; themes and problems in Canadian resource management. The specific subjects discussed include: the world food problem; global patterns of energy consumption and production; use and management of the world's minerals; international responses to resource inequalities; water development and management in Canada; pollution, conservation, environment and the law, problems of land management in Canada.

Two Hours of Lectures per week.

Prerequisite: GGR04 or GGR05.

Session: Winter Day

GGRB03Y Climatology

An introduction to the scientific analysis of world climate through study of the governing physical and dynamic controls. The major zonal climates of the earth are described including an examination of atmospheric circulation, global energy and moisture balances. In the second half of the course several important applied aspects of climatology will be examined. Tutorials will include use of simple climatological instruments and analysis of weather maps.

Some of the major topics are: radiation and energy balance on a small scale; surface effects on these balances; gas flow in the atmosphere, atmospheric motion and winds, atmospheric water vapour and clouds, global circulation, air masses and fronts. Climatic variables, their measurements and use. Climatic change and the effect of climate on social and industrial activities.

Prerequisite: GGR05.

Session: Winter Day

GGRB05Y Urban Geography

A study of the forces and processes which give rise to urban places, which influence the growth and development of cities and systems of cities, and which influence the location of various types of human activities in the city.

The first half of the course focuses on the city in history and on urban systems - their evolution, regulation, classification, and abstract representation. The second half is concerned with the internal structure of the city, concentrating on residential, commercial, and industrial land use patterns, and on transportation, migration, and planning. Examples will be drawn in part from Canadian cities. Two hours of lectures per week.

Session: Winter Day
GGRB19Y Modern Landscapes and Built Environments
The character and architectural and social origins of twentieth century landscapes, and the ways in which places and landscapes can be appreciated and designed.

In the fall term the features of modern landscapes and their technological, cultural and architectural origins will be discussed. In the spring term emphasis will be on the experience and appreciation of landscapes, and on the problems of twentieth century built environments. Various approaches to environmental design will be examined. Field trips are planned during the fall term. Prerequisite: GGRA04; students with GGRA05 admitted with permission of instructor.
Session: Winter Day
E. C. Raleigh

GGRB15Y Coastal Geomorphology
The coastal zone as a physical environment is immensely variable, complex and extremely fragile. Man's use of the coastal zone is accelerating at a greater pace than that which is currently recognized in the physical processes which occur naturally in the environment. This course is designed to help students develop an understanding of the nature of the coastal environment, its historical development and the problems which arise from man's use and abuse of it. The mechanics of coastal processes will be applied to a study of coastal erosion, silting, pollution, etc. Field trips during the fall term.
Prerequisite: GGRB19Y; GGRB313 is strongly recommended.
Session: Winter Day
B. Greenwood

GGRB17Y Rural Geography
Concepts of rurality, evolution and elements of rural settlement, rural resource base, agricultural land use, contemporary issues in rural regions.
A thematic study of the geography of rural environments. Lectures and seminars will examine the distinctions of rurality, the evolution, elements and patterns of rural settlement, the rural resource base, agricultural land use, and contemporary issues in rural regions. These themes will be discussed in various cultural contexts.
Prerequisite: GGRA04; students with GGRA05 admitted with permission of instructor.
Session: Winter Day

GGRB19Y General Geomorphology
Processes of surficial material development and landscape evolution; weathering processes and soil development; landform formation and process; principles of fluvial geomorphology and drainage system analysis; introductory coastal geomorphology; processes of landform evolution in and regions; the geomorphic role of climatic change. Pleistocene and present day glaciation; geomorphology as an applied geotechnical field. Field excursions, laboratories, lectures.
Prerequisite: GGRA05
Session: Winter Day
B. Greenwood

GGRB24Y Environmental Pollution
The physical causes of environmental degradation are treated, with emphasis on the pollution of water systems by human usage. The course outlines the types and sources of pollutants and suggests strategies to reverse or avoid the deterioration caused by them.
The aim is to examine the complexity of the controls on undisturbed water-air systems, and to give students an understanding of how the size and nature of pollution and strain on water and soil quality of natural systems. Two hours of lecture and one hour of lab per week.
Exclusion: GGRB23
Session: Summer Evening, Winter Day

GGRB27F Development Principles in Geography
An introduction to theories of growth and development with emphasis on spatial or locational implications. Course topics include spatial patterns in economic activity, theories of trade and regional specialization, patterns of urbanization and their role in regional development, and the planning and management of growth.
In this course, spatial patterns of development and growth will be related to location and trade theories, land allocation processes, urban growth theory, city system linkages, and polarization forces. The role of the planner in shaping changes to these patterns will be discussed. This course is intended to be taken in conjunction with GGRB29. Two hours of lectures per week plus an additional tutorial hour as needed.
Exclusion: GGRB06
Prerequisite: GGRB04Y or an A-Level course in the Social Sciences.
Session: Winter Day
J. Miron

GGRB28S Development Principles in Geography II
An evaluation of the spatial and location implications of economic and social change. Varying theoretical interpretations of macroeconomic growth are presented and analysed, and their value as tools for understanding spatial processes discussed.
In the course, theories of the classical, neo-classical, and structuralist schools of economic and social development are discussed in relation to problems of urbanization, industrialization, removal of barriers to migration, and spatial inequality. The implications of each theory for planning and policy formulation will also be discussed. This course is intended to be taken with GGRB27F. Two hours of lectures per week plus an additional tutorial hour as needed.
Exclusion: GGRB06
Prerequisite: GGRB27
Session: Winter Day
J. Miron

GGRB29Y Soil Management and Conservation
Exclusion: GGRB15
Prerequisite: GGRA05; students with GGRA04 admitted with permission of instructor.
Session: Winter Day
B. R. Bryan

GGRB30F Geographic Methods
An introduction to basic methods employed in geography, including data handling, graphic representation, map and air photo interpretation and field survey techniques.
The aim of the course is to provide students with the tools needed for the analysis of geographical problems. A one-hour lecture and two-hour laboratory each week.
Prerequisite: GGRA04 or GGRA05
Exclusions: GGRB21, GGRB22, GGRB25
Session: Winter Day

GGRB31S Analytical Methods in Geography
Topics will be taken from the following: classical and Bayesian probability theory, frequency and sampling distributions, population parameters, and statistical estimation, hypothesis testing, correlation and regression, sampling theory and analysis of variance. Applications to geographical problems include spatial sampling, trend surface analysis, evaluation of spatial patterns, and spatial auto-correlation. The course involves the use of microcomputers, package programmes and elementary computer programming. Two hours of lectures and two hours of laboratories per week.
Prerequisite: GGRA04 or GGRA05
Exclusions: GGRB02, ECOB11, PSYB07, SOC606, STAB52, STAB57
Session: Winter Day
J. Miron

GGRC01Y Supervised Research
A research project under the supervision of a member of faculty. The project will culminate in a written report in the form of a dissertation. This may be based upon the results of library or archival research, field study, data analysis or other appropriate methods. Students will meet as a group with the coordinator as well as having frequent contact with their supervisor.
Prerequisite: Any fifteen full-course equivalents. By the end of year in which the student takes this course, at least eight full-course equivalents in Geography must have been completed.
Session: Winter Day

GGRC04F Urbanization and Residential Geography
A study of residential areas in the modern city, with a strong focus on the Toronto region. The overall emphasis is on the manner in which residential geography is a part of, as well as a reflection of, important political, economic and social processes.
The course begins with a consideration of past and present trends in urbanization, and their relevance for regional planning and urban government. The major focus of the course is on residential differentiation or segregation and associated processes of flow and change in and on the quality of the residential environment, the provision of public goods, planning and the political processes involved. Each two-hour class will consist of a general lecture, a seminar presentation by a student and a discussion.
Prerequisite: GGRB05 or GGRB27/GGRB28
Session: Winter Day
GGRC12S Contemporary Issues in the Philosophy of Geography
An examination of the major themes in contemporary geography and a critical discussion of the main philosophical positions adopted by geographers (positivism and the philosophy of science, pragmatism, philosophy of history, etc.). Alternative philosophical approaches of increasing popularity (phenomenology, Marxism, conceptual analysis) are also considered.

The aim of this course is to examine the relationships between the various types and approaches of geography, and to demonstrate some of the implications of the most widely adopted approaches.

Prerequisite: Any ten full-course equivalents. By the end of the year in which the student takes this course at least five other full-course equivalents in Geography must have been completed.

Session: Winter Day
E.C. Ralph

GGRC18F Urban Transportation Policy Analysis
An introduction to the analysis of urban transportation planning problems. Topics include the spatial impacts of transportation improvements, the mass transit policy, environmental impacts, and evaluation in transportation planning. Three hours of lectures per week.

Prerequisite: GGRB05 or GGRB06 or GGRB27/GGRB28

Session: Winter Day
J. Miron

GGRC20F Rural Planning and Development
The special problems of rural settlement and land use in the modern world and of associated planning and development policies. Emphasis will be placed upon the role of government policy in the shaping of rural landscapes and societies.

The main topics will include agricultural and rural development programs, policies for marginal and remote areas, agricultural land preservation, rural landscape conservation, rural settlement strategies. Examples of particular policies and programs will be used as case studies in workshop sessions.

Prerequisite: GGRB05, GGRB13 or GGRB17

Students with a background in other Social Sciences disciplines may be interested in this course: they will be admitted with permission of instructor.

Session: Winter Day

GGRC25S Sedimentary Models
Basic principles of sediment transport mechanics necessary for the interpretation of the physical properties of sedimentary bodies. Detailed examination of a wide range of modern sedimentary systems will be undertaken to establish analogues for palaeoenvironmental interpretation. Topics include: fundamental sediment properties, facies definition, tectonics and sedimentation, cyclic sedimentation, facies models, palaeo-hydraulic interpretations. Two hours lecture and two hours lab/field trip per week.

Prerequisite: GGRB07 or GGRB15

Session: Winter Day
B. Greenwood

GGRC29S Bioclimatology
An examination of the environmental aspects of the surface energy exchanges that are important in some advanced branches of physical geography and ecology. Instrumental measurements of radiative and mass fluxes (i.e. water vapour) are linked to the behaviour of vegetation cover, and the resultant physiological responses on the ecosystem are quantitatively evaluated. Leaf temperature, soil moisture status, leaf area, etc. are linked to environmental parameters and their role in the local surface energy balance is shown.

Some major topics are: solar and long wave radiation balance over different surfaces; penetration of solar radiation in plant communities; effect of soil moisture on stomatal behaviour and productivity of ecosystems; models of water and carbon flow through ecosystems. Lectures and practical sessions.

Prerequisite: GGRB03

Session: Winter Day

GGRC31S Development and Planning of Metropolitan Regions
An advanced analysis of the recent growth history of metropolitan regions, its causes, the public policy issues raised by them, and the roles and impacts of public planning policies.

The course is designed for students interested in urban geography or urban and regional planning. It focuses on the insights which can be gained from recent empirical research. First-hand readings of important studies will help the students develop a critical awareness of approaches and ideas in research in this area. Two hours of lectures and one hour tutorial per week.

Exclusion: (GGRC27)

Prerequisite: One of GGRB05, GGRB06, GGRB27/GGRB28, ECOB47, POLBB9, SOC805

Session: Winter Day

J. Miron

GGRC34F Landscape Interpretation
Exclusion: (GGRC17)

Prerequisite: One of GGRB05, GGRB13 or GGRB17; students with other Geography courses or courses from other disciplines with permission of instructor.
Geology

Discipline Representative: K. Howard (284-3336)
Geology is concerned with the origin and evolution of the Earth as evidenced primarily through the study of rocks. The subject is multidisciplinary in nature and draws heavily upon the physical and biological sciences. Students wishing to pursue a specialist programme in Geology at the College should register in the Terrain and Environmental Earth Sciences (TEES) Programme. Further details on the Geology programme at the University of Toronto can be obtained from the Discipline Representative.

Specialist Programme in Terrain and Environmental Earth Sciences

Supervisor: K. Howard
The TEES Programme draws upon courses offered at Scarborough College as well as those given on the St. George Campus, and involves the subjects of Geology, Physical Geography, and the basic sciences.

The programme comprises sixteen and one-half courses. In addition, two field courses must be taken beyond the twenty courses required for the Four Year Degree. Each is of two weeks duration and must be taken at the end of each of the 2nd and 3rd years.

First year:
GLGA01Y Introductory Geology
GLGA05Y Introductory Physical Geography
MATA26Y Calculus
or
MATA56Y Calculus with Analysis
CHMA02Y General Chemistry
PHYA03Y Physics for the Physical and Life Sciences

(PHYA02Y)

Second year:
GLGB01Y Introductory Mineralogy and Petrology
GLGB02S Principles of Stratigraphy and Sedimentology
GGBR01Y General Geomorphology
MATH41F Techniques of the Calculus of Several Variables I
and
MATH42S Techniques of the Calculus of Several Variables II
or
MATH50F Analysis I
and
MATH55S Physical Chemistry I
or
CHMB02Y Analytical Chemistry,

GSCA56F Computer Programming
or
GSCA58F Introduction to Computing

Third year:
GLGB18Y Introductory Petrology I
GLGB19S Introductory Petrology II
GGBR07Y Geomorphology: The Pleistocene Epoch
or
GLGB26F Glacial and Periglacial Geology
GGBR28Y Hydrology of Surface and Subsurface Waters
GLGB32F Geology and Kinematics of Tectonic Structures

Fourth year:
GLGB01Y Fundamentals of Hydrogeology
GLGB09H Environmental Geophysical Analysis
GLGB12S Applied Glacial Geology
GGBR28S Sedimentary Models
or
GLGB29S Sedimentology of Crustal Rocks
Options: Students are strongly encouraged to consider courses in the wide range of other disciplines available at the College.

GLGB01Y Planet Earth: An Introduction to Geology
Fundamental concepts of physical and historical geology are discussed in the context of the Earth as a planet. The first part of the course deals with the composition, structure, and origin of the Earth and the physical processes that operate on and in it. The second part deals with the historical succession of physical and biological events on the Earth as revealed in the rock record. Students with a credit in this course cannot take GLGB02S.

GLGB02S Principles of Stratigraphy and Sedimentology
Physical and chemical processes of sedimentation, properties, and classification of sedimentary rocks, sedimentary environments, and sedimentary facies. Analysis of stratigraphic nomenclature and classification. Students with a credit in this course cannot take GLGB02S.

GLGB03S Geology in the Urban Environment
The course is designed to show the relevance of geology to our daily lives. The fundamental theme will be to emphasize that the Earth has evolved through dynamic natural processes; these will be identified and discussed. The interaction of these natural processes with urban communities will be stressed. No prior knowledge of the Earth Sciences is required.

Specific topics include: The Earth as a planet; earthquakes; the architecture and composition of the earth's crust; volcanic terrains; processes associated with the hydrologic cycle; the Great Lakes; the impact of the growth of a large urban area, such as Metropolitan Toronto, on the natural physical environment.

Throughout the course an awareness of the importance of the geological heritage of southern Ontario will be developed, and the processes that shaped its environment will be described.

The input of geology into planning will be discussed.

Session: Winter 1983

W. Tolle

GLGB01Y Introductory Mineralogy and Petrology
Crystallography, physical properties, chemical properties, origin and occurrence of minerals, and descriptive mineralogy of approximately eighty common or useful minerals. Optical mineralogy and identification of the principal rock-forming minerals in thin section by use of the polarizing microscope; introduction to petrography. Students with a credit in this course cannot take GLGB02S.

GLGB02S Principles of Stratigraphy and Sedimentology
Physical and chemical processes of sedimentation, properties, and classification of sedimentary rocks, sedimentary environments and facies. Analysis of stratigraphic nomenclature and classification. Students with a credit in this course cannot take GLGB02S.

GLGB03S Geology in the Urban Environment
The course is designed to show the relevance of geology to our daily lives. The fundamental theme will be to emphasize that the Earth has evolved through dynamic natural processes; these will be identified and discussed. The interaction of these natural processes with urban communities will be stressed. No prior knowledge of the Earth Sciences is required.

Specific topics include: The Earth as a planet; earthquakes; the architecture and composition of the earth's crust; volcanic terrains; processes associated with the hydrologic cycle; the Great Lakes; the impact of the growth of a large urban area, such as Metropolitan Toronto, on the natural physical environment.

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GLGB02S Principles of Stratigraphy and Sedimentology
Physical and chemical processes of sedimentation, properties, and classification of sedimentary rocks, sedimentary environments and facies. Analysis of stratigraphic nomenclature and classification. Students with a credit in this course cannot take GLGB02S.

GLGB03S Geology in the Urban Environment
The course is designed to show the relevance of geology to our daily lives. The fundamental theme will be to emphasize that the Earth has evolved through dynamic natural processes; these will be identified and discussed. The interaction of these natural processes with urban communities will be stressed. No prior knowledge of the Earth Sciences is required.

Specific topics include: The Earth as a planet; earthquakes; the architecture and composition of the earth's crust; volcanic terrains; processes associated with the hydrologic cycle; the Great Lakes; the impact of the growth of a large urban area, such as Metropolitan Toronto, on the natural physical environment.

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GLGB02S Principles of Stratigraphy and Sedimentology
Physical and chemical processes of sedimentation, properties, and classification of sedimentary rocks, sedimentary environments and facies. Analysis of stratigraphic nomenclature and classification. Students with a credit in this course cannot take GLGB02S.

GLGB03S Geology in the Urban Environment
The course is designed to show the relevance of geology to our daily lives. The fundamental theme will be to emphasize that the Earth has evolved through dynamic natural processes; these will be identified and discussed. The interaction of these natural processes with urban communities will be stressed. No prior knowledge of the Earth Sciences is required.

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GLGB02S Principles of Stratigraphy and Sedimentology
Physical and chemical processes of sedimentation, properties, and classification of sedimentary rocks, sedimentary environments and facies. Analysis of stratigraphic nomenclature and classification. Students with a credit in this course cannot take GLGB02S.

GLGB03S Geology in the Urban Environment
The course is designed to show the relevance of geology to our daily lives. The fundamental theme will be to emphasize that the Earth has evolved through dynamic natural processes; these will be identified and discussed. The interaction of these natural processes with urban communities will be stressed. No prior knowledge of the Earth Sciences is required.

Specific topics include: The Earth as a planet; earthquakes; the architecture and composition of the earth's crust; volcanic terrains; processes associated with the hydrologic cycle; the Great Lakes; the impact of the growth of a large urban area, such as Metropolitan Toronto, on the natural physical environment.

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Crystallography, physical properties, chemical properties, origin and occurrence of minerals, and descriptive mineralogy of approximately eighty common or useful minerals. Optical mineralogy and identification of the principal rock-forming minerals in thin section by use of the polarizing microscope; introduction to petrography. Students with a credit in this course cannot take GLGB02S.
Discipline Representative: H. Wittmann
Courses in German provide opportunities for the study of the language and of the literature of Germany, Austria and parts of Switzerland. Language and literature courses may be combined in various ways by students who have completed the prerequisite courses. Also available are Major Programmes in German Language or German Language and Literature, and a Specialist Programme in German Area Studies. All Programmes include a sequence of language courses in order to maintain continuity in the development of practical skills.

Specialist Programme in German Area Studies
Supervisor: H. Ohleffendorf (284-3197)
The German-speaking areas in Europe have throughout their history exerted a major formative influence on Western civilization, be it in the fields of politics and economics or through their contributions to literature, the arts, and philosophy. Awareness of this significant fact is clearly reflected in a large number of courses in the Social Sciences and the Humanities at Scarborough College.

In order to offer the student of German Area Studies a coherent interdisciplinary plan of study we have grouped these courses below. This is a Programme of twelve full-course equivalents. Required for every student are the German language courses GERB19Y, GERB20Y, GERB21Y, and two full-course equivalents in German Literature. Four full-course equivalents are to be chosen from any of the core groups A, B, or C. The remaining three full-course equivalents should be selected from groups A – E, excluding your core choice.

A History
HISA01Y The European World
HISA17Y Germany in the 19th and 20th Centuries
HISC17Y European Society and Culture Between the World Wars
plus one course from among:
HISC19S War and Culture
HISB13Y Europe in the Reformation Era 1500–1650
HISB15Y European Social History 1789–1920
HISB18Y Europe under the Enlightened Despots

B The Arts
MUSA01Y Introduction to Music
MUSB03Y Music of the Classical Period
MUSB06Y Music of the Romantic Period

plus two full-course equivalents from among the following:
FARA12F Renaissance and Baroque Art
FARB10F Carolingian and Romanesque Art and Architecture
FARB11F Gothic Art
FARB16Y The Arts in Northern Europe ca. 1400–1550
FARB45F/F Art from 1600–1900
FARB48F Art from 1900–1950
FARC01F/F Readings in Art History: Maximalist and the Arts
FARC16F/F Expressionist Tendents In Western Art From Van Gogh to Jackson Pollock
MUSB01S Music of the Eighteenth Century
MUSB03S Music of the Baroque Era
MUSB07F The Symphony
MUSB13F/F Bach
MUSB18S Beethoven

C Philosophy
PHLA01Y Fundamental Questions of Philosophy
PHLB12S/F Marx and Marxism
PHLB30F Existentialism
PHLB48F Philosophy in the Later Modern Age I
PHLB49S Philosophy in the Later Modern Age II

plus one full-course equivalent from among the following:
PHLB03F/F Philosophy and Art
PHLB04F Philosophy in Literature
PHLB18F Philosophy of History
PHLB20F Existence and Reality
PHLB37F/F Philosophy of Science
PHLB38S Philosophy of Language
PHLB45F Philosophy in the Early Modern Age I
PHLB47S Philosophy in the Early Modern Age II

D Politics and Economics
ECOB1S International Economics: Trade Theory
ECOB2F International Economics: Comparative Economic Systems
ECOB21Y European Economic History
ECOC07F The Economics of Karl Marx
POLE71Y Political Thought of the Eighteenth and Nineteenth Centuries

POLE85Y Comparative Politics of Industrial Societies

POLC70Y Twentieth Century Political Thought
POLC86F/F Intergovernmental Relations in the European Economic Community

E Drama and Humanities
DRAA20Y The Directors' Theatre
DRAA21Y The History of the Theatre II
DRAA11Y Individual Studies in German Theatre and Drama
HUMB29S Religion and Western Culture
HUMB43F/F Emergence of Modern Prose
HUMB44F/F Disaster and the Literary Imagination
JHGB01F/F The Holocaust in German Literature
JHUM19F Contemporary Fiction and Its Background

Students interested in German Area Studies should contact the Supervisor as soon as possible to ensure that a satisfactory and cohesive sequence of courses is selected.

Major Programme in German Language
Supervisor: H. Wittmann (284-3197)
The Programme consists of the following courses:
GERA09H Language Practice I
GERA10Y Introductory German
GERA19Y Language Practice II
GERB20Y Communication
GERB21Y The Last Hundred Years
GERB33F/F Practicum in the History and Structure of the German Language
GERB50F/F Methods of Interpreting Literature
GERC10Y Advanced Conversation and Composition
LINL01Y General Linguistics

Language requirements will be waived by permission of the Supervisor if students judged to have highly advanced knowledge of German. 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.

GERA09H Language Practice I
A practicum offered in conjunction with GERB20Y. The focus is on oral and written composition at the intermediate level.
This practicum is designed to increase the students' vocabulary and fluency in German. There are three hours of supervised discussion, essay writing and reading each week.
Prerequisite: Grade 13 or GER21Y
Corequisite: GERB20Y
Session: Winter Day

GERA10Y Introductory German
The fundamentals of grammar and syntax.
In this course the students will acquire a basic knowledge of the German language. One comprehensive textbook will be used and a variety of reading materials will be introduced to initiate conversation.

The students are exposed to the four language skills from the beginning of the course (listening, speaking, reading, writing). They are encouraged to practise these skills in a variety of combinations. There are four hours of intensive grammar and structural work per week.
Corequisite: GERB10
Session: Winter Day

GERB19Y Language Practice II
A practicum offered in conjunction with GERB20Y. The focus is on oral and written composition at the intermediate level.
This practicum is designed to increase the students' vocabulary and fluency in German. There are three hours of supervised discussion, essay writing and reading each week.
Prerequisite: Grade 13 or GER21Y
Corequisite: GERB20
Session: Winter Day

GERB20Y Communication
A practicum offered in conjunction with GERB21Y, GERB20Y, and GERB21Y. At least four full-course equivalents must be taken in German Literature. GERA09H and GERA10Y do not count towards the requirement.

See also the Specialist Programmes in Modern Languages and Language and Literature.

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GERB20Y Intermediate German
Intensive language work focusing on readings and oral and written composition.
The course is designed to expand the active and passive vocabulary of the students through a variety of reading materials. A thorough grammar review accompanies the reading selections. As the course progresses, the emphasis will shift to literary discussions and conversation. Short stories will supplement the textbook. Mimosgraphed material on current events will be introduced from time to time to spark class discussion.
Corequisite: GERB19
Prerequisite: Grade 13 German or GER A09 and A10
Session: Winter Day
H. Wittmann

GERB509 Methods of Interpreting Literature
An introduction to the techniques of literary analysis.
Poems and short pieces of prose will be analyzed in close reading. Prose and metrics will be dealt with in some detail; special attention will also be given to the relationship between form and content. In the final section patterns of rhetoric, syntax, and style will be investigated in the analysis of prose texts. The course is intended to familiarize the student with the fundamental criteria and techniques required for the analysis of literary works.
All sessions are informal tutorials: they have free-flowing discussions with a high degree of student involvement. Each student is asked to prepare a number of short presentations.
Prerequisite: GERB19 and B20
Session: Winter Day
H. Wittmann

GERB63F Nineteenth Century Drama
The development of drama from Grabbe and Büchner to Hauptmann and Wedekind.
The core of this course is formed by the best known plays of two major trends of the nineteenth century drama: the conservative and the revolutionary. Emphasis will be placed on the reading, analysis and discussion of the plays in the context of their time and the literary traditions in which they stand or which they themselves begin. The plays will also be looked at as practical examples of the theories of the theatre they are intended to represent.
Prerequisite: GERB19 and GERB20
Session: Winter Day
H. Wittmann

GERB78S Twentieth Century Drama
A study of plays from Expressionism to the present.
Modern German theatre from Brecht to Handke is investigated in this course. Special attention is paid to the definition of phenomena such as expressionism, epic theatre, documentary theatre, theatre of the absurd, etc., as they apply to the author's selected. The course is intended to show what gave rise to the many experiments in modern German theatre and what relationships exist to the social and ideological realities which these plays confront.
Three hours of lecture per week.
Prerequisite: GERB19 and GERB20
Session: Winter Day
H. Wittmann

GERC10Y Advanced Composition and Conversation
A continuation of language work done in GERB19Y and B20Y. A variety of language exercises will be centered around different texts. A review of grammar and syntax on an advanced level will reinforce the students' ability to write, read, speak, and understand. Material on current events will be used to spark class discussion and encourage oral and written analysis in German. The course intends to further the students' ability to write and converse in German with ease and fluency.
Prerequisite: GERB19 and GERB20
Session: Winter Day

GERC58Y Advanced Language Practice
A continuation of language work done in German C10Y.
This course is intended for students who want to specialize in German language and want to enhance their fluency. Texts of some degree of complexity will be read and analyzed. Special emphasis will be put on the attainment of idiomatic fluency in a variety of contexts both of a practical, career oriented and a literary nature. Students' needs and objectives will help determine the content of the exercises.
Prerequisite: GERC10Y
Session: Winter Day

Greek
Courses are offered in introductory Classical Greek (GRKA01 and GRKA10), Greek literature of the classical period (GRKB01, GRKB30, etc.), and modern Greek (B10Y, B22Y).
GRKA01 Y Introductory Greek
GRKA10F Introduction to Greek Authors
GRKB01S Plato: Apology
GRKB10Y Intermediate Modern Greek
GRKB22Y Images of Modern Greece: 1930 to the Present
GRKB30F-B34F
GRKB35S-B39S
GRKB40Y Supervised Reading
For further information see under Classical Studies.

Greek and Roman History
The following courses are offered this year:
GRHB01Y Greek History from the Bronze Age to the Death of Alexander
GRHB03Y Roman History from the Gracchi to Noro
GRHB25Y Studies in Greek History I
For further information see under Classical Studies.

GERB24S GERB33S
The Last Hundred Years
Practicum in the History and Structure of the German Language
Prerequisite: Grade 13 German or GER A09 and GER A10

JHGB50Y The Development of German Drama
Edition: (GERB40)

JHGB51Y Masterpieces of the German Novel from the 18th Century to the Present
Edition: (GERB40)

JHGB52F The Holocaust in German Literature

GERB50Y Nineteenth Century Prose
Prerequisite: GERB19 and GERB20

GERB66F Twentieth Century Prose
Prerequisite: GERB19 and GERB20

GERB70S Twentieth Century Drama
Prerequisite: GERB19 and GERB20

GERB73S Modern German Poetry
Prerequisite: GERB19 and GERB20

GERB76F Features of Post-War German Literature
Prerequisite: GERB19 and GERB20

GERC13Y Classicism
GERC20Y Literature of Sturm und Drang and Romanticism
Prerequisite: GERB19 and GERB20
History

Discipline Representative: I. R. Robertson

The study of history is intended to enhance our understanding of man in 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.

The History curriculum combines a variety of approaches and teaching in order to satisfy a number of purposes. HIS01Y 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 (HIS020-09) 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. C-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: Mediaeval Europe, Modern European, British, American, Canadian, Russian, and Ancient Greek and Roman.

Specialist Programme in History

Supervisor: M. Eksteins (284-3346)

Students must complete twelve full-course equivalents as follows:

A Ten must be in History (HIS or GRH), including HIS01Y and five upper-level courses (HISB11Y-HIS99Y, GRH24F/S-GRH28Y, HIS300 and 400 level courses on the St. George campus). Of these ten at least two must deal with the period prior to 1815 (see list). Students are also required to take courses at least three different areas (Greek and Roman, Medieval European, Modern European, British, Canadian, United States, Russian), and to take at least two upper-level courses in each of two areas.

B Two must be full-course equivalents in disciplines other than History and be agreed upon in consultation with the Supervisor.

Pre-1815 courses

LIST A

Full-year courses exclusively within a period before 1815

GRHB01Y Greek History from the Bronze Age to the Death of Alexander

GRHB02Y Greek, and Roman History from the Death of Alexander to the Gracchi

GRHB03Y Roman History from the Gracchi to Nero

GRHB25Y* Studies in Greek History I

GRHB26Y* Studies in Greek History II

GRHB27Y* Studies in Roman History: Pompeii

GRHB28Y* Studies in Roman History

HISB09Y* Studies in Roman History: Roman Britain

HISB06Y Europe in the Middle Ages

HISB13Y Europe in the Reformation Era, 1500-1650

HISB18Y Europe under the Enlightened Despots

HISB23Y* Tudor and Stuart England

HISB61Y* The Beginnings of France: Constantine to Charlemagne

(HISC11Y)* Western Europe in the Seventeenth Century

HISC12Y* The Renaissance in Europe

HISC14Y* The European Mentality in the Early Modern Period

HISC32Y* The American Colonies and the British Empire

HISC62Y* The Crusades

LIST B

Half-year courses exclusively within a period before 1815

GRHB24F/S Ancient Historiography

HISB14F/S* Popular Culture in Early Modern Europe

HISC34F/S* Revolutionary America 1760-1790

HISC41F/S Old Huronia

LIST C

Full-year courses covering a period before 1815 in the first half of the year (equivalent to half-year course credit)

HIS01Y The European World

HISB07Y Russia from the Thirteenth Century to the Present

HISB46Y* Atlantic Canada

* Students should check these courses for prerequisites.

Major Programme in History

Supervisor: M. Eksteins (284-3346)

Students must complete seven full-course equivalents in History (HIS or GRH), including HIS01Y and three upper-level courses (HISB11Y-HIS99Y, GRH24F/S-GRH28Y, HIS300 and 400 level courses on the St. George campus). Of these seven at least one must deal with the period prior to 1815 (see list). Students are also required to take courses in at least two different areas (Greek and Roman, Medieval European, Modern European, British, Canadian, United States, Russian), and to take at least two upper-level courses in one of these two areas.

Pre-1815 courses

LIST A

Full-year courses exclusively within a period before 1815

GRHB01Y Greek History from 2000 B.C. to Greece from 2000 B.C.

GRHB02Y Greek and Roman History from the Death of Alexander

GRHB03Y Roman History from the Gracchi to Nero

GRHB25Y* Studies in Greek History I

GRHB26Y* Studies in Greek History II

GRHB27Y* Studies in Roman History: Pompeii

GRHB28Y* Studies in Roman History

HISB09Y* Studies in Roman History: Roman Britain

HISB06Y Europe in the Middle Ages

HISB13Y Europe in the Reformation Era, 1500-1650

HISB18Y Europe under the Enlightened Despots

HISB23Y* Tudor and Stuart England

HISB61Y* The Beginnings of France: Constantine to Charlemagne

(HISC11Y)* Western Europe in the Seventeenth Century

HISC12Y* The Renaissance in Europe

HISC14Y* The European Mentality in the Early Modern Period

HISC32Y* The American Colonies and the British Empire

HISC62Y* The Crusades

LIST B

Half-year courses exclusively within a period before 1815

GRHB24F/S Ancient Historiography

HISB14F/S* Popular Culture in Early Modern Europe

HISC34F/S* Revolutionary America 1760-1790

HISC62Y* The Crusades

LIST C

Full-year courses covering a period before 1815

GRHB24F/S Ancient Historiography

HISB14F/S* Popular Culture in Early Modern Europe

HISC34F/S* Revolutionary America 1760-1790

HISC41F/S Old Huronia

HIS01Y The European World

HISB07Y Russia from the Thirteenth Century to the Present

HISB46Y* Atlantic Canada

* Students should check these courses for prerequisites.

HISA01Y The European World: An Introduction to History

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

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

Session: Winter Day

J. Pearl, M. Eksteins

HISA025 The Twentieth Century World

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. Two lectures per week.

Session: Winter Day

W. Dick and Staff

HISB07Y Britain from the Eighteenth Century to the Present

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

The course will be concerned with the problems caused by the transformation of an agrarian into a highly industrialized economy; of an aristocratic into a liberal democratic society, and of a society based on the ideology of the Enlight-
enment into one committed to the study of the United States. It will also consider the role of the British in the 18th century, and the establishment of a welfare state. Two lectures and one tutorial per week.

Session: Winter Day
J.P.B. Kenyon

HISB03Y History of the United States
Major themes of the Revolution to the present
The course will focus on aspects of the American Revolution, political organization, political parties, territorial expansion, nationalism, sectionalism, reform movements, the slavery and civil rights question, the response to industrialization, and the United States as a world power. Two lectures and one tutorial per week.

Session: Winter Day
A.N. Sheps, W.M. Dick

HISB04Y Introduction to Canadian History
An introduction to Canadian history from the first European contacts to the present.
Topics 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, political, economic, social, and cultural history of the new nation-state established in 1867. Two lectures and one tutorial per week.

Session: Winter Day
J.S. Mor, J.R. Robertson

HISB05Y Europe in the Middle Ages
A chronological survey of economic, political, religious, and social developments in Western Europe, including Britain, from the late Roman period to the fifteenth century.

The object of this course is for students to become familiar with the development of Western society in the late medieval period. Two lectures and one tutorial per week.

Session: Winter Evening
L.J. Abram

HISB17Y Germany in the Nineteenth and Twentieth Centuries
A thematic treatment of German history from the end of the Holy Roman Empire to the present. Two lectures and one tutorial per week.

Session: Winter Day
M. Evers

HISB07Y Russia from the Thirteenth Century to the Present
The Russian people, state and culture, with emphasis on major social, political, and ideological changes from the rise of Moscow to the present. Wherever possible readings have been selected from primary sources and so that students will be acquainted not only with the facts but also with the flavour of Russian history. Two lectures and one tutorial per week.

Session: Winter Day
E.W. Osterl

HISB10S Women in the Western World from the Renaissance to the Present
The role of women in European and North American societies, and the historical debates over women's place in society. Topics include: the family, gender, marriage, and the labour force. The Renaissance and early modern periods will be presented as a background. Emphasis will be on the period after 1750. There will be one two-hour lecture and one tutorial per week. Students will write one research paper on a topic of their choice, based largely on primary sources.

Prerequisites: HIS101Y, HISB02Y, HISB03Y, HISB04Y, or HIS101Y
Session: Winter Evening
L.J. Abram

HISB13Y Europe in the Reformation Era 1450-1550
An examination of major themes in sixteenth-century Europe, especially social, political, and cultural changes. There will be strong emphasis on the religious and political issues and institutions which were so important in that period, and on the role of their interaction with the society and culture. Lectures and discussions.

Prerequisite: HIS101Y
Session: Winter Day
L.J. Abram

HISB17Y Germany in the Nineteenth and Twentieth Centuries
A thematic treatment of German history from the end of the Holy Roman Empire to the present. Two lectures and one tutorial per week.

Session: Winter Day
M. Evers

HISB17Y Germany in the Nineteenth and Twentieth Centuries
A thematic treatment of German history from the end of the Holy Roman Empire to the present. Two lectures and one tutorial per week.

Session: Winter Day
M. Evers

HISB21Y Frontier Communities in the British Empire-Commonwealth: The South African Model
A comparative study of the influences of frontier development on the development of new nations, with emphasis on the history of South Africa. Such major issues as settlement, class structure, race relations, democracy and nationalism, and relations with the metropolitan power are considered.

Two lectures and one tutorial per week.

Prerequisite: HISB02Y or permission of instructor
Session: Winter Day
J.P.B. Kenyon

HISB22S British Imperialism in India
The impact of imperialism in India. Two lectures and one tutorial per week.

Prerequisite: HISB02Y or permission of instructor
Session: Winter Day
J.P.B. Kenyon

HISB23Y Tudor and Stuart England
Eng and in the provinces of the Rooses to the English Revolution, 1645-1688. The course gives an overview of the political, economic, social, and cultural aspects of the Age of Change. Special attention will be given to four themes: the powers and personalities of the rulers, Parliament and the rule of law, the great religious crisis and its conflict with the religious war, and the cultural heritage. Two lectures and one tutorial per week.

Prerequisite: Any B-level course
Session: Winter Day
L.J. Abram

HISB31Y The Southern United States and Slavery
The social, political, and economic structures of the Old South from the colonial period to the Civil War. Two-hour lecture and one tutorial per week, with both of which there will be an opportunity for class discussion led by the instructor.

Prerequisite: HISB03
Session: Winter Day
A.N. Sheps

HISB35Y The United States since 1870: The Response to Industrialism
Industrial organization, social mobility, ethnicity, relations between government, labour and capital, social welfare and the implications of industrialization for foreign policy are among the topics covered.

Prerequisite: HISB03
Session: Winter Day
W.M. Dick

HISB42Y French Canada: Origins to the Present
A thematic study of the development of French Canada in the seventeenth and eighteenth centuries. The course examines the development of French society, the impact of English dominance, nationalism, industrialization, urbanization, and social problems.

Prerequisite: HISB04
Session: Winter Day
L.J. Abram

HISB43Y The Evolution of Ontario, 1850-1950
An examination of the growth of Ontario from a rural, agricultural society to an urbanized, industrial province, and of the contribution of demographic, political, economic and social forces to that growth.

Prerequisite: HISB04
Session: Winter Day
L.J. Abram
HISB35Y  Change in title and course description

Twentieth Century America

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, industrialism and world power. The tensions created by the appearance of large scale organization, by the expansion of governmental power, 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. A second tutorial will be opened if necessary.

Prerequisite:  HISB03Y

Session:  Winter Day        Time:  W2-4, T0001 M2
tries and trade unions, the development of commercial, educational and public service institutions, the impact of immigration, provincial political parties and movements, and Ontario's place in the Canadian Confederation.

There will be two lectures and one tutorial per week.
Prerequisite: HIB804 (HIB809)
Session: Winter Evening
J.S. Moir

HISC04Y Atlantic Canada
An examination of the Maritime provinces and Newfoundland and from the first European contacts to Confederation in each province.
Subjects to be investigated include: native peoples and the impact of European contact; French regime and the development of a distinctive Acadian people; the dispersal of the Acadians; British settlement; responses to the American Revolution; the Loyalist impact; colonial economies and social structures; literary and intellectual developments; struggles for responsible government, and its eventual loss in Newfoundland; religious and ethnic tensions; fishermen's movements in Newfoundland; the coming of Confederation. One two-hour lecture per week, and the class will be divided into two small tutorial groups, each meeting every two weeks. Written work will include two research papers.
Prerequisite: HIB804
Session: Winter Day, Summer Evening
J.R. Robertson, M.B. Taylor

HISC81Y The Beginnings of France: Constantine to Charlemagne
A brief survey of the later Roman Empire in the west, followed by a study of the period from Constantine to Charlemagne. Major topics include: background (Roman Empire and Christian church), the Age of Constantine (A.D.); life and letters of late Roman Gaul (300-500 A.D.); the kingship of the Franks (500-600 A.D.); the world of Charlemagne. Special emphasis will be placed on social, economic and religious aspects of the period. Students will be expected to acquire a general familiarity with the literature on the subject, to choose one topic area each term and present a paper on it, and to develop a personal view of the subject. Two hours of lecture and one of tutorial per week.
Prerequisite: Any B-level course in History or Greek and Roman history
Session: Winter Day
J.H. Corbett

HISC01F HISC02S HISC03Y Independent Studies
A directed reading course for students in their final year of undergraduate study who have demonstrated a high level of academic maturity and competence. Qualified students will have an opportunity to investigate an historical field which is of common interest to both student and supervisor and which is not available for study otherwise. Candidates must find a willing supervisor and must submit a written application before the dates given below. Students meet regularly with the supervisor to discuss progress in their investigations and complete a 7,500-10,000 word paper for a term course and a 15,000-20,000 word paper for a year course.
Prerequisite: At least one B-level course in History; permission of instructor to be obtained in the previous term, by 15 April for HISC01 and HISC03 and by 1 December for HISC02. See History Supervisor for detailed application procedures.
Session: Winter Day
The History Faculty

HISC61Y Social Conflict and Accommodation in Modernizing Societies
A seminar in international social history tracing different patterns in the growth of mass societies in Europe and North America from the late 18th century to the present.
The course examines how political ideas, population pressures and industrialization altered the structure of society; studies how early forms of social protest coalesced into mass organizations; discusses how governments responded to changing pressure from below. In the first term the course will examine the subject theoretically and establish a broad historical outline. During the second term each student will pursue a particular topic and present a paper on it. Two hours seminars; tutorial to be arranged.
Limited enrolment: 15.
Exclusion: HISC61Y
Prerequisites: HIC001Y and two full course equivalents in pre-1815 history; either European or North American.
Session: Winter Day
W. Dick

HISC19S Welmar Culture
An examination of the social and political foundations of modernism through the cultural ferment of Germany between 1918 and 1933 as model.
Individual artists and thinkers will be considered, but the emphasis will nevertheless be on culture as a social manifestation. Seminar.
Limited enrolment: 15.
Prerequisite: HIC001 and one B-level course in History
Session: Winter Day
M. Eksenas

HISC21Y Urbanization and Social Change in Nineteenth Century England
A study of the new social environment created by the growth of cities in an industrial community.
Seminar. In the first term students will discuss major issues based on prescribed readings; they will also write a book report. In the second term students will present a report on their research. Limited enrolment: 20.
Prerequisite: HIB802
Session: Winter Day, Summer Evening
J.P.B. Kenyon

HISC32Y The American Colonies and the British Empire
An examination of the origins of American society and institutions in the eighteenth century and their development in the eighteenth century, the origins, course and effect of the American Revolution and the Constitution and their relation to Western political thought, and the impact of the Revolution on British North America and Britain.
A two-hour weekly seminar, based on suggested readings and class discussion.
Prerequisite: Any one of HIB802, HIB803, HIB840 or HIB818.
Session: Winter Day
A.N. Shaps

HISC41F Old Huronia
Political, social, religious and economic life of the Huron Indians and the interaction of Huron and European cultures.
The course will be taught by weekly seminar.
Limited enrolment: 15.
Prerequisite: HIB804
Corequisite: Field trip to be arranged
Session: Winter Evening
J.S. Moir

JHP02Y Canadian Social Issues: Historical and Philosophical Perspectives
An advanced level seminar that will examine social issues in Canadian society with an emphasis on the historical development of legal and ethical thinking. Limited enrolment: 15.
In 1983-84 we will examine: conscription and pacifism; the status of native Canadians; women in Canadian society; race relations; crime and punishment; religious freedoms. We will examine the historical development of legal and ethical thinking on these issues including an examination of the various positions taken by interest groups and their role they have played in influencing policy and law in Canada.
Prerequisites: HIB804Y or PHL801F/S or PHL805F/S
Session: Winter Day
J.S. Moir, R.P. Thompson

HISC82Y The Crusades
An examination of the Crusades of the eleventh through fourteenth centuries.
This seminar will consider the Crusades as a continuation of Christianity's centuries-old struggle with paganism, as a form of colonial expansion, and as a papal weapon against heresy and political dissent within Christendom. The movement will be compared and contrasted with the foundation and activities of the military orders, particularly the Hospitallers, Templars, Teutonic Knights and the associated orders in Spain and northeastern Europe. During the first semester students will read selections from the most significant scholars in the field and, in class, compare and contrast the wide variety of viewpoints and interpretations which have arisen since the completion of Gibbon's Decline and Fall of the Roman Empire in 1781. The second semester will be devoted to a similar reading (in translation) and analysis of original Western European, Byzantine, Arabic, and Jewish chronicles of the crusading movement. Term papers will concentrate on the careful study of a secondary work and a source not covered in class. Bibliography available from Prof. Michael Gervers.
Prerequisite: HIB806
Session: Winter Evening
M. Gervers

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HISC20H Anglo-Saxon England


Topics will include law and kinship, political organization, the economic system, the conversion to Christianity, religious organization, the Viking invasions, the Danish imperium, the golden age of Edward the Confessor, and the effects of the Norman Conquest. Seminar.

Prerequisite: One B-level course in History or English

Session: Winter Evening       Time: T7-10E

Instructor: J.S. Moir
The History of Ideas

Courses Not Offered in 1983-84

HISB14F Popular Culture in Early Modern Europe
Exclusion: HIS101
Prerequisite: HIS101

HISB16Y Modern France 1750 to the Present
Exclusion: HIS101
Prerequisite: HIS101

HISB18Y Europe Under the Enlightened Despots, 1700-1789
Exclusion: HIS101
Prerequisite: HIS101

HISB44F Canadian Religious Traditions
Prerequisite: HIS104

HISB47Y The Canadian Left, 1867 to the Present
Exclusion: HIS101
Prerequisite: HIS101

HISC12Y The Renaissance in Europe
Exclusion: HIS101 or permission of the instructor
Prerequisite: HIS101

HISC14Y The European Mentality in Early Modern Period (1500-1700)
Exclusion: HIS101 or HIS102
Prerequisite: One B-level History course

HISC17Y European Society and Culture in the Twentieth Century
Exclusion: HIS101 and one B-level course in History
Prerequisite: HIS102 or HIS103 or HIS104

HISC34F/S Revolutionary America, 1760-1790
Exclusion: HIS104 or HIS105 or HIS106
Prerequisite: HIS102 or HIS103 or HIS104

HISC43S Selected Topics in Canadian Religious History
Prerequisite: HIS105

HISC45Y History of Canadian Social, Political and Historical Thought
Exclusion: HIS101
Prerequisite: HIS104

HISC79Y The Russian Intelligentsia
Exclusion: HIS101
Prerequisite: HIS102 or RU101

Specialist Programme in History of Ideas

Supervisor: W. C. Graham (284-3279)

Students must complete at least twelve full-course equivalents as follows:

1. HUMA01Y Prologue
2. ANT101Y Introduction to Anthropology
3. SOC101Y Introduction to Sociology
4. AST02Y Astronomy and Astrophysics
5. ECO101Y Introduction to Economics
6. GGRA04Y The Nature of Human Geography
7. AST03Y Introduction to Astronomy (for non-scientists)
8. BIO102Y Introduction to Biology
9. MAT102Y Linear Algebra
10. HUMA01Y European World
11. HUMA11Y Greek and Roman Mythology
12. HUMA12Y Major Religious Traditions, East and West
13. PHLB10F/9 Introduction to Philosophy
14. PHLB11F/9 Philosophy of the Social Sciences
15. PHLB16F/9 Philosophy of History
16. PHLB20F/9 Belief, Knowledge and Truth
17. PHLB11F/9 Philosophy of Religion
18. PHLB00F/4S Philosophy of Science
19. PHLB11F/9 Theories of Mind
20. ECO20F-Literature of Political Economy
21. ECO21F-Literature of Political Economy II
22. PHLB10F/9 Political Philosophy
23. PHLB11F/9 Marx and Marxism
24. PHLB12F/9 Anarchism
25. POLB07Y Political Thought from Plato to Locke
26. POLB11Y Political Thought of the Eighteenth and Nineteenth Centuries
27. POLC07Y Twentieth Century Political Thought
28. HUMA10Y Humanities Seminar

*Students should check these courses for prerequisites.

College Programme in History of Ideas

Supervisor: W. C. Graham (284-3279)

Students must complete at least nine full-course equivalents as follows:

1. HUMA01Y Prologue
2. ANT101Y Introduction to Anthropology
3. ECO101Y Introduction to Economics
4. GGRA04Y The Nature of Human Geography
5. SOC101Y Introduction to Sociology
6. AST02Y Astronomy and Astrophysics
7. BIO102Y Introduction to Biology
8. MAT102Y Linear Algebra
9. HUMA01Y European World
10. HUMA11Y Greek and Roman Mythology
11. HUMA12Y Major Religious Traditions, East and West
12. PHLB10F/9 Introduction to Philosophy
13. PHLB11F/9 Philosophy of the Social Sciences
14. PHLB16F/9 Philosophy of History
15. PHLB20F/9 Belief, Knowledge and Truth
16. PHLB11F/9 Philosophy of Religion
17. PHLB00F/4S Philosophy of Science
18. PHLB11F/9 Theories of Mind
19. ECO20F-Literature of Political Economy
20. ECO21F-Literature of Political Economy II
21. PHLB10F/9 Political Philosophy
22. PHLB11F/9 Marx and Marxism
23. PHLB12F/9 Anarchism
24. PHLB07Y Political Thought from Plato to Locke
25. POLB11Y Political Thought of the Eighteenth and Nineteenth Centuries
26. POLC07Y Twentieth Century Political Thought
27. HUMA10Y Humanities Seminar
28. PHB11F/9 Philosophy of Religion
29. PHLB11F/9 Philosophy of Science
30. PHLB00F/4S Philosophy of Science
31. ECO101Y Introduction to Economics
32. GGRA04Y The Nature of Human Geography
33. SOC101Y Introduction to Sociology
34. AST02Y Astronomy and Astrophysics
35. BIO102Y Introduction to Biology
36. MAT102Y Linear Algebra
37. HUMA01Y European World
38. HUMA11Y Greek and Roman Mythology
39. HUMA12Y Major Religious Traditions, East and West
40. PHLB10F/9 Introduction to Philosophy
41. PHLB11F/9 Philosophy of the Social Sciences
42. PHLB16F/9 Philosophy of History
43. PHLB20F/9 Belief, Knowledge and Truth
44. PHLB11F/9 Philosophy of Religion
45. PHLB00F/4S Philosophy of Science
46. PHLB11F/9 Theories of Mind
47. ECO20F-Literature of Political Economy
48. ECO21F-Literature of Political Economy II
49. PHLB10F/9 Political Philosophy
50. PHLB11F/9 Marx and Marxism
51. PHLB12F/9 Anarchism
52. PHLB07Y Political Thought from Plato to Locke
53. POLB11Y Political Thought of the Eighteenth and Nineteenth Centuries
54. POLC07Y Twentieth Century Political Thought
55. HUMA10Y Humanities Seminar

*Students should check these courses for prerequisites.
Discipline Representative: C. Ponomareff. The Humanities are concerned with man's never- ending reflection on the human condition, with the development and communication of his thought, and with the creation and enjoyment of the beautiful. They are thus an integral part of liberal education.

The majority of courses in the Humanities are offered by the various disciplines comprising the Humanities Division and are listed alphabetically under the discipline heading in this calendar, along with the Specialist and/or Major Programme centered on a particular discipline. The Humanities Division, however, also offers a Specialist Programme in the Humanities and a College Programme in the Humanities which involve students in a wide range of Humanities disciplines: these programmes are outlined below. Following these programmes is a list of courses which will appeal to students who wish to explore the Humanities outside the traditional disciplinary framework. For the most part, these courses offer an alternative to examination within current precise national, historical, and disciplinary boundaries, opting, instead, to structure subjects of interest around a theme which itself creates its own reasoned limits. Students may find this a particularly attractive point of view from which to study an enduring human myth, a more unified approach to literature, an aspect or aspects of a loose historical period, or a movement of broad cultural relevance.

Humanities courses fall into the following broad categories, for all of which HUM 216Y serves as a useful, though not always a required, prelude:

- Civilization and Culture
- Myth, Religion and Reality
- Interdisciplinary Studies
- Literature in Translation

*Students should check these courses for prerequisites.

**Humanities**

HUMC11Y The Darwinian Revolution
HUMC12Y The Holocaust in German Literature
HUMC13Y The Development of German Drama
HUMA10Y Introduction to the Study of Religion
HUMA11Y Greek and Roman Mythology
HUMA12Y Greek and Roman Mythology
HUBM20Y The Renaissance and Reformation
HUMB21S The Literature of the Spanish Mystics
HUMB26Y Women in the Major Western Religions
HUMB27S Science Fiction
HUMB28Y Major Religious Traditions, East and West
HUMB43Y Religion and Western Culture
HUMB53Y World Visions from the Late Middle Ages to the Renaissance
HUMB34FS Hesiod: The Classical Myth
HUMB35S The Iliad
HUMB36Y Hercules: Man of Action
HUMB37S The Odyssey
HUMB38FS Orpheus: The Quest for Beauty
HUMB39FS Atlantis
HUMB42Y Fantasy in Narnia and Middle Earth
HUMC25Y The University
HUMC23Y Comparative Mythology

**Interdisciplinary Studies**

HUMB40Y Russian and English Nineteenth Century Fiction
HUMB43Y The Emergence of Modern Prose
HUMB44FS Disaster and Literary Imagination
HUMB45Y The Spanish Civil War: Fact to Fiction
HUMC01S Lyric Poetry of the Middle Ages
HUMC14Y Romance Philology
HUMC15Y Contemporary Fiction and its Backgrounds
HUMC13Y Advanced Seminar in Literary Theory and Criticism

**Literature in Translation**

CLAB01Y Greek and Roman Epic
CLAB02Y Greek and Roman Tragedy
CLAB03Y Machiavelli and Aspects of the Italian Renaissance
CLAB04Y The Crisis of Contemporary Society in Modern Italian Drama
CLAB05Y The Twentieth Century Latin American Novel and The European Tradition

**Specialist Programme in the Humanities**

Supervisor: W. C. Graham (284-3279)

The Humanities Specialist Programme is designed for the student who, while pursuing a four-year degree, wishes to concentrate his or her studies in the Humanities. After an introduction to a wide range of disciplines within the Division, the student has the option (see item 7) of doing more specialized work in a specific discipline or of taking advantage of our wide interdisciplinary offerings (listed under HUM) to develop a less traditional area of specialization.

Twelve (12) full-course equivalents are required, as follows:

1. HUMA01Y
2. PHLB01Y
3. HISAO1Y
4. One full-course equivalent in the arts: DRA, FAR, MUS
5. One full-course equivalent in the social sciences: GL, EN, FRE, GER, HUM, ITA, LIN, RUS, SPA

NOTE: A course taken to satisfy one area requirement may not be used to satisfy another area requirement. Students intending to take a DRA or HUM course to fulfill one of the area requirements must consult with their academic advisor.
requirements should consult with the Supervisor about the appropriateness of a particular course. A course in MAT or AST may replace one of the course requirements. 2, 3, 5, or 6.

7. Four and one-half further full-course equivalents in Humanities subjects, at least two of which must be at the C-level. (For the purpose of this Program, Mathematics is also considered to be a Humanities subject.) These five courses should focus on one area or theme and should involve some depth of coverage. Students may elect to fulfill this requirement through the individual Study Program (HUHMCQ-891). Choice of courses must be approved by the Supervisor.

8. HUMC10H

College Programme in the Humanities
Supervisor: W.C. Graham (284-3279)
The Humanities College Programme is designed for the student who wishes to have been known as a "liberal education". The Programme will seek to develop the critical intellectual skills of the student and to acquaint him with basic forms of approach in several areas of human endeavor. It will accomplish this by developing a coherent group of courses within the framework established below, for each student registered in the Programme.
Nine (9) full-course equivalents are required, as follows:
1. HUMA10Y
2. PHIA10Y
3. HISIA10Y
4. One full-course equivalent in the arts: DRA, FAR, MUS
5. One full-course equivalent in language, literature, or linguistics: CLA, DRA, ENG, FRE, GER, HUM, ITA, LIN, RUS, SPA.

NOTE: A course taken to satisfy one area requirement may not be used to satisfy another area requirement. Students intending to take a DRA or HUM course to fulfill one of the area requirements should consult with the Supervisor about the appropriateness of a particular course. A course in MAT or AST can replace one of the requirements 2, 3, 4 or 5 above.

6. One full-course equivalent emphasizing major ideas in the sciences or social sciences: ANT10Y, ANT332Y, ASTA30Y, NSCA10Y, NSCA92Y, POLB70Y, POLB71Y, SOC803Y. Other courses offered by the Division of Science and the Division of Social Sciences may be chosen to fulfill this requirement upon approval by the Supervisor.

7. Three further full-course equivalents in Humanities subjects, at least one of which must be at the C-level focusing on one area or theme. (Note: For the purpose of this Program, Mathematics is also considered to be a Humanities subject.) Choice of courses must be approved by the Supervisor.

8. HUMA10Y Prologue
Twenty books of central importance in Western civilization.
A comprehensive examination will be given at the completion of the first term of ten books.
There is a one-hour tutorial for each book. The examination will stress the student’s ability to relate the books in his own way, rather than to remember minute aspects of plot and character. At weekly informal sessions guest leaders will present aspects of each work through lectures or other media. Fall Term: The Bible (selections). Homer, The Odyssey, Sophocles, Oedipus Rex; Plato, The Last Days of Socrates; Herodotus, Histories, Virgil, Aeneid; Augustine, Confessions; Dante, Inferno; Beowulf, Beowulf; Boccaccio, Decameron.
Spring Term: Machiavel, The Prince, Cervantes, Don Quixote; Goethe, Faust; Gibbon, History; Buddha, Life is a Dream; Vasari, Lives of the Artists; Galileo, Discoveries and Opinions; Goethe, Faust; Marx, Communist Manifesto; Darwin, Origin of Species; Freud, Interpretation of Dreams. Notes: For information on appropriate editions of these works, see the co-ordinators. Tutes may change if editions become unavailable.
*What's past is prologue* - Shakespeare, The Tempest, 1.1.

9. Session: Winter Evening
Co-ordinators: W.C. Graham, P.W. Groch

JHSA01Y Introduction to Women's Studies
Women and their roles and relationships in various societies. Taught by members of the disciplines of Anthropology, Classics, English, French, History, Linguistics and Sociology. The course provides an overview of the problems investigated by specialists as women's studies and teaches how to use the methodologies of a range of disciplines to explore these problems. Areas of discussion include women and mythology, women and power, women's roles in the family, and women and literature. Among the particular topics are: the origins of misogyny; sexual stereotyping; poetry and propaganda; and the family - myth and reality.

Session: Winter Day
Co-ordinator: D. James

HUMA11Y Greek and Roman Mythology
The emergence and treatment of myths and legends in the Greco-Roman world.
The course will examine the major myths and legends and their representation in classical literature, drama, art, and will be concerned with ancient and modern theories of myth. This course will be useful to students interested in the literary and art history of the classics and will serve as an introduction to other courses in classics.
Session: Winter Day
J. Warden

HUMB14Y Topics in Latin American Culture and Literature
A study of the political, social, cultural and literary evolution of Latin America through selected topics such as: Pre-Columbian America; myths and religious practices; the Spanish conquest, construction or destruction?; the Mexican and Cuban revolutions; a study in contrasts; contemporary Latin American fiction, themes and concerns; and, the present day political scene. No knowledge of the Spanish language is required. However, students majoring in Spanish are encouraged to take this course.
One tutorial and one discussion session per week. Tutorials to be arranged.
Session: Winter Day
E. Leon

HUMB16F The Image of the Self in Liberal Sociology
Critical contemporary reactions to social problems.
Contemporary society has been labelled post-industrial, "newly literate", "value-neutral", "commodity-conscious", "narcissistic"; in examining the contents of social criticism such as Habermas, Habermas, and Adorno, Chomsky, Toffler, Lasch, Bennett, Ellul and Touraine, we shall confront a broad range of issues that include the trivialization of personal relations, media culture, bureaucracy, "teamwork" and the corporate identity, commodity, education, the crisis of socialism and capitalism, new modes of social conflict and the relevance of futurism.
Session: Winter Day
W. Graham, S. Mittler

HUMB17Y The European Experience: Man and Society in the Twentieth-Century French and Italian Novel
The modern evolution of two European societies as documented in their narrative fiction.
In this interdisciplinary analysis of the cultural fabric of France and Italy, non-literary material will be used to complement selected readings that illustrate social, political and economic developments. Europe-wide philosophic reactions, and consequences in narrative form. Works will be read in translation, although students with reading knowledge of French and/or Italian will be encouraged to read in the original. Texts include Sasso, The Confessions of Zeno, Céline, Journey to the End of the Night, Camus, The Fall, Lampedusa, The Leopard, Moravia, The Two of Us, Lefebvre, Everyday Life in the Modern World, and other works.
Exclusion: HUMB03
Session: Winter Day
S. Mittler

HUMB19F Beyond Consciousness
An examination of the limits of consciousness from the point of view of various disciplines in the Humanities. The specific content will vary but will focus on one of the following: communicative, religion and philosophy, myth-making and poetry.
In 1981-82 suggestion and the unconscious will be studied insofar as they relate to the educational process and emphasis will be placed on yoga, music therapy, East-European and Western work in memory training and communications.
Bibliography: A detailed bibliography for this course will be provided on the first day of class. Students interested in taking HUMB19F might wish to consult the following: Brown, New Mind, New Body; Elia, Yoga: Immortality and Freedom; Ossender and Schoder, Psychic Discoveries Behind the Iron Curtain and Superlearning; Problems of Suggestology.
Participation: At least one full-course equivalent in either Psychology or Philosophy or English or another literature.
Session: Winter Day
W.J. Bancroft

HUMB23S The Age of Augustus
Rome in transition from Republic to Principate, with reading of the Aeneid of Virgil as well as selections from Horace and Ovid. Representative pieces of Roman art and architecture will also be studied.
The course aims to present an integrated picture of ancient Greece and Rome, and to show how the questions of power, social organization, national identity, and the quality of life were addressed in literature and art, with particular emphasis on poetry and architecture. Special attention will be given to the Augustan Forum, the Ara Pacis, and the "Prima Porta" statue on the one hand, and the poetry of Virgil, Horace, and Propertius on the other. Slides will be shown and studied frequently, and discussion encouraged.

Session: Winter Day
J.R. McDonald

HUMB25Y Major Religious Traditions, East and West
An introductory study of the ideas, attitudes, practices and contemporary situation of the Judeo-Christian, Islamic, Hindu, Buddhist, Confucian, Taoist, and Shinto faiths.

The first part of the course deals with the ideas and practices of India, China, and Japan. The faiths of the Near East - Judaism, Christianity, Islam - are studied in the second part. While the course is of general interest, it will be particularly useful for students who are concerned with the history, philosophy, sociology and psychology of religion.

Session: Winter Day
J. McAllister

HUMB35Y The Ulysses Factor
The literature of exploration: a study of a recurring motif - the Odyssey - in Greek, Latin, Medieval, and Modern literature, based on the Homeric archetype, Odyssey.

The course traces the portrayal of an archetypal hero and the legends surrounding him. The original is in Greek myth and the story is told in the present day. It explores some reasons for the hold of the Odyssey on the reader, the reworking of the Odyssey in subsequent literature by Virgil, Dante, and Shakespeare, and the influence of the Odyssey on the literary and non-literary media.

Session: Winter Day
R. Irwin

HUMB37Y Science Fiction
Reading and discussion of representative works in the genre of science fiction.

Science fiction is where science and the Humanities meet. It is an area of interest to not only many science fiction fans, but to philosophers, historians, sociologists, and psychologists. The course will explore the various themes and ideas presented in science fiction, and how they relate to our understanding of the world around us.

Session: Winter Day
R. McDonald

HUMB43Y The Spanish Civil War: Fact to Fiction
An exploration of the impact of the Spanish Civil War, 1936-39, on the literary imagination within and outside Spain. This is not a course on the history of the Spanish Civil War but one in which a brief examination of its origins, progress, and aftermath will lead to analysis and discussion of the various uses of artistic response (narrative, dramatic, lyrical, documentary) to the military, political, and social realities of the conflict. Authors to be considered will include: Gironella, Hesse, Malraux, Orwell, Sender, Sperber, etc. The topics will be addressed in a lecture-tutorial format.

Session: Winter Day
A. Skyrme

HUMB60Y Women in Ancient Greece
A study of women in Greece from the time of Homer to the fourth century B.C. This course will provide a detailed study of the role of women in ancient society, and how it has been interpreted by modern historians. The course will also explore the social and cultural context in which women lived, and how their roles have evolved over time.

Session: Winter Day
R. McDonald

HUMB87Y Introduction to Cinema
An introduction to the vocabulary of film criticism, major aesthetic approaches and general history (silent and sound). Tutorials start the first week of classes.

Note: There is a screening fee of $20.00 for this course.

Session: Winter Day
M.Q. Rosenberg

HUSB71Y Italian Cinema
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 directors will be shown during the course, which will meet four hours per week. There will be an introduction to the film followed by film viewing and discussion. Specialists in Italian will be expected to do their written work in Italian. This course is open both to students with no previous knowledge of Italian language and culture and to specialists in Italian.

Note: There is a screening fee of $10.00 for this course.

Session: Winter Day
M.Q. Rosenberg

HUMB80Y Creative Writing: An Introduction to Poetry and Short Fiction
This course will provide students with the experience of writing, discussing and revising their work in a workshop format. It will also provide special work on techniques and form, and consideration of a few major contemporary writers to facilitate technical discussions. Limited enrollment: 15.

Prerequisite: Admission by portfolio. This requirement may be replaced by interview at the discretion of the instructor.

Session: Summer Evening
R.M. Brown
HUMB73S Religious Themes in the Films of Werner Herzog

An examination of some of the major religious themes in the films of Werner Herzog.

Topics include questions of innocence and guilt, "intensity" versus dissipation, humility and pride and standards of normality. Of all the major new German film makers, Herzog is the most universal in his choice of subject matter. He is not interested in portraying the details of German politics and society, but rather those dramas that reveal something of life as everyone experiences it. Concurrent with the viewing of eight films, students will read religious texts dealing with Herzog's major themes.

Session: Winter Evening  Time:  W6-10E

There is a screening fee of $10.00

Instructor:  M. Barnes
Courses Not Offered in 1983-84

HUMA10Y  Introduction to the Study of Religion
Prequisite: Any ten courses.  Session: Winter Day  Co-ordinator: W. C. Graham

HUMB13Y  The Russian Revolution of 1917: Promise and Fulfillment, Ideals and Realities  Exclusion: (HUMB30)  The Civilization of Spain  Exclusion: (SPAB08), SPAB09

HUMB15Y  Modern Italy  Exclusion: ITAB20

HUMB20Y  Pre-Reformation Christian Literature and Myth  Prerequisite: No formal prerequisites, but some knowledge of the biblical literature will be presupposed.  Greek is desirable but not required.

HUMB21S  The Literature of the Spanish Mystics  Exclusion: (SPAB37)

HUMB22F  The Age of Pericles  The Age of Nero

HUMB24S  Women in the Major Western Religions

HUMB25S  Roman and Western Culture  World Visions from the Late Middle Ages to the Renaissance

HUMB35Y  Orpheus: The Quest for Beauty  Exclusion: (HUMB08)

HUMB37F  Atlantis  Exclusion: (HUMB09)

HUMB38F  Utopia: From More to Huxley  Disaster and the Literary Imagination  Exclusion: (HUMB02)

HUMB44F  Machiavelli and Aspects of the Italian Renaissance  Exclusion: ITAB33

HNB50Y  The Development of German Drama Exclusion: (GERB40)

HNB51Y  Masterpieces of the German Novel from the Eighteenth Century to the Present  Exclusion: (GERB43)

HNB52F  The Holocaust in German Literature

HNB54F  The Crisis of Contemporary Society in Modern Italian Drama  Exclusion: (ITAB15), (ITAB16), ITAB17

HNB55Y  The Twentieth Century Latin American Novel and the European Tradition

HUMB64Y  Literary Considerations and Feminism
Prerequisite: Either one course in English or one in Women's Studies

HUMC01F  Lyric Poetry of the Middle Ages in the Mediterranean Area
Prerequisite: One B-level course in either Romance Literature or English Literature.

HUMC11Y  The Darwinian Revolution
Prerequisite: BIOB05 or BIOB11 or PHIL70 or PHIL71 and permission of the instructor

HUMC14Y  Romance Philology
Prerequisite: LIN0A1; two full-course equivalents, one of which must be at the B-level in one of the following languages: French, Italian, Latin or Spanish. It would also be an asset, but it is not a prerequisite, to have some knowledge of Latin and/or a second Romance language.

HUMC19F  Comparative Study of Contemporary Fiction
Prerequisite: One B-level course in literature or permission of instructor

HUMC25Y  Individual Study Year
An option for advanced students to spend a year following their own studies under the supervision of a committee 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 areas, and will take an oral examination at the end of the year before an appropriate board of faculty. Those interested in enrolling should contact the Divisional Chairman by the end of May 1981. (For a year of individual study, students must enrol in all five courses. Those who wish to take Individual Studies should consult the disciplinary listings.)

Prerequisite: Permission of the Division of Humanities Committee on Individual Study. Session: Winter Day  Staff

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Prerequisite: Permission of the Division of Humanities Committee on Individual Study. Session: Winter Day  Staff
Italian

Discipline Representative: A. Franceschetti (284-3307)
Scarborough College offers a wide range of courses on the language and literature of Italian 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 or ITAA11. ITAA01 students may take ITAB01, which is a prerequisite for literature courses as well as for the more advanced language courses. Students who have completed ITAA01 may take ITAA11 as a prerequisite for literature and more advanced language courses. Students with Grade 13 Italian may begin by taking ITAB10. 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 the spoken as well as written aspects of the language.

Courses offered by other disciplines may prove directly valuable to the student in Italian as adjuncts to his plan of study or as enrichment of his total program. Similarly, certain aspects of Italian literature complement other areas of interest, such as Fine Art, Music, and English, French, Latin, and Spanish languages.

Students enrolled in Italian, some of whom may wish to enroll in the Faculty of Education or 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 course in Italian while taking or after completing any B-level course in Italian. Students may be excluded from any given course if their knowledge of Italian is deemed by the instructor to exceed the level of the language of that course.

Major Programme in Italian Language
Supervisor: A. Franceschetti (284-3307)
The Major Programme in Italian Language consists of 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 Introductory Italian Language Practice
3 ITAA03S Conversation II
4 ITAB01Y Intermediate Italian I
5 ITAB03F Intermediate Conversation I
or ITAB04F/S Advanced Composition
6 ITAB06S Intermediate Conversation II
or ITAB05F/S Practical Translation
7 ITAC01Y Language Practice
8 ITAB20F/S Modern Italian
9 ITAB22F Introduction to Modern and Contemporary Italian Literature
10 LINA01Y General Linguistics

Option B (for students with some prior knowledge of Italian or one of its dialects but without Grade 13 Italian):
1 ITAA11Y Elementary Italian
2 ITAA03S Conversation II
3 ITAA11Y Intermediate Italian II
4 ITAA03F Intermediate Conversation I
or ITAB04F/S Advanced Composition
5 ITAB06S Intermediate Conversation II
or ITAB05F/S Practical Translation
6 ITAC01Y Language Practice
7 ITAB20F/S Modern Italian
8 ITAB22F Introduction to Modern and Contemporary Italian Literature
9 ITAB23F/S Survey of Italian Literature from the Middle Ages to the Renaissance
10 LINA01Y General Linguistics

Option C (for students with Grade 13 Italian):
1 ITAB10Y Italian Language Review (proposed new course)
2 ITAB03F Intermediate Conversation I
3 ITAB06S Intermediate Conversation II
4 ITAB04H Advanced Composition
5 ITAB05F/S Practical Translation
6 ITAC01Y Language Practice
7 ITAB20F/S Modern Italian
8 ITAB22F Introduction to Modern and Contemporary Italian Literature
9 ITAB23F/S Survey of Italian Literature from the Middle Ages to the Renaissance
10 LINA01Y General Linguistics

Language requirements will be waived by the supervisor in the case of students judged to have highly advanced knowledge of Italian. 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.

Major Programme in Italian Language and Literature
Supervisor: D. McAuliffe (284-3346)
Students are required to complete seven full-course equivalents as follows:
Three full-course equivalents in Italian Language
Three full-course equivalents, including ITAB22F and ITAB23F/S or ITAB21Y, and ITAB31Y, in Italian Literature.
One full-course equivalent selected from among the offerings in Italian or from the Humanities Discipline's offerings (HUM) which concentrate on Italian culture, civilization, and literature.
Language requirements will be waived by permission of the supervisor in the case of students judged to have highly advanced knowledge of the language. 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 the Specialist Programmes in Modern Languages and Language and Literature.

ITAA01Y Introductory Italian
An elementary course for students with no knowledge of Italian. Elements of Italian grammar, with attention given to oral practice. Short contemporary texts will be studied.
Our aim is to provide a relaxed friendly atmosphere in which to study basic standard Italian grammar and syntax. Importance is given to exercises which develop the practical skills of understanding and speaking needed for the prerequisite course A02H. The basic Italian textbook is supplemented by dialogues made up by students and easy readings commencing as practical grammar problems. A program is also provided in the language laboratory for those who wish to make use of it.

ITAA11Y Elementary Italian
An elementary course for native speakers with little or no knowledge of standard Italian usage. Short contemporary texts will be studied.
The course aims at giving a basic knowledge of speaking, reading and writing Italian. The main objective is to free the student from the phonological, lexical, and grammatical interference, from both dialects and English, and to begin to think and write in the Italian community. Basic grammar rules will.

Session: Winter Day
D. McAuliffe

ITAA02H Introductory Italian Language Practice
Practical application of the language structures introduced in ITAA01.
As with the corequisite A01Y, our aim is to provide a relaxed, friendly atmosphere in which to learn basic standard Italian. The two-hour weekly class time is devoted entirely to conversing in Italian. At the beginning of the semester students are given set dialogues which they are expected to use, and as they acquire confidence and knowledge of the language they are encouraged to prepare their own dialogues and conversations based on situations and topics of interest.
Corequisite: ITAA01
Session: Winter Day
D. McAuliffe

ITAA03S Conversation II
Practical application of the language structures introduced in ITAA01.
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 from contemporary novels, newspapers and magazines. Among the topics chosen are the geography, history, politics, economics, and cultural life of contemporary Italy. Students are expected to participate in classroom discussion, make oral presentations, and take an oral examination. Three hours per week.
Corequisites: ITAA01 or ITAA11
Session: Winter Day
S. Mittler

ITAA11Y Elementary Italian
An elementary course for native speakers with little or no knowledge of standard Italian usage. Short contemporary texts will be studied.
The course aims at giving a basic knowledge of speaking, reading and writing Italian. The main objective is to free the student from the phonological, lexical, and grammatical interference, from both dialects and English, and to begin to think and write in the Italian community. Basic grammar rules will.

Session: Winter Day
D. McAuliffe

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be studied and modern prose passages will be analyzed from the point of view of grammatical structures, lexical choice and idiomatic expressions. The course will be conducted almost entirely in Italian. Three hours of lectures per week; the use of the language laboratory is highly recommended.
Exclusion: ITA021
Corequisite: It is strongly recommended that students enrolled in this course take ITA003 concurrently with it.
Session: Winter Day

**ITA041** Intermediate Italian I
A continuation of ITA01. Intensive review of grammar; with drills, exercises and compositions.
The course concentrates on explaining and practising 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 on or summaries of the readings discussed in class. The course will be conducted in Italian. Three hours per week.
Exclusion: ITA010, ITA011
Prerequisite: ITA010
Corequisite: It is strongly recommended that students enrolled in this course take ITA003 and ITA06 concurrently with it.
Session: Winter Day

**ITA055** Intermediate Conversation II
A continuation of ITA003. This course aims to develop as fully as possible the student's facility with the language and continues the program outlined in ITA003.
Exclusion: ITA010, ITA011
Prerequisite: ITA003
Corequisite: It is strongly recommended that students enrolled in this course take ITA003 and ITA066 concurrently with it.
Session: Winter Day

**ITA065** Intermediate Composition
Study and analysis of modern Italian prose structures, idioms and stylistics. The purpose of the course is to enable the students to acquire fluency of expression in written Italian, both in free compositions and in summaries of passages of modern Italian writers. Difficulties of grammar, idiom and stylistics will be discussed and explained during the two-hour class meeting every second week. Individual student compositions will be evaluated in detail during tutorial sessions.
Exclusion: ITA010, ITA011
Prerequisite: ITA003
Session: Winter Day
A. Franceschetti

**ITA101** Italian Language Review
A review of grammatical structures stressing syntax and vocabulary building.
This course is intended to help students who have studied Italian in Grade 13 to increase their ability to speak and write according to standard usage. Class time will be devoted to oral practice as well as to discussion of grammatical difficulties found in a variety of Italian texts in addition to the students' own compositions.
Exclusions: ITA010, ITA011
Prerequisite: ITA010
Session: Winter Day
A. Franceschetti

**ITA11Y** Intermediate Italian II
A continuation of ITA11Y. The course concentrates on explaining and practising 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 on or summaries of the readings discussed in class. The course will be conducted in Italian. Three hours per week.
Exclusion: ITA010, ITA011
Prerequisite: ITA101
Corequisite: It is strongly recommended that students enrolled in this course take ITA003 and ITA066 concurrently with it.
Session: Winter Day
A. Franceschetti

**ITA205** Modern Italy
An introduction to the ideas and events which contributed to the making of modern Italy. This course is conducted in Italian. It aims to help the student understand the complex social, economic, and political context in which life is conducted in present-day Italy. Readings from a variety of primary and historical texts from the basis for the discussion of topics outlined by the instructor. The course will be conducted in Italian. Three hours per week.
Exclusion: ITA010, ITA011
Prerequisite: ITA003
Session: Winter Day
D. McAuliffe

**ITA311** Dante and Medieval Culture
An introduction to Medieval Italian literature with special reference to Dante. This course aims to introduce the student to the problems, mentality, social and cultural patterns of man in the Middle Ages with specific reference to literary phenomena such as Provençal lyrics, the Latin epic and the Italian poetry of the Quattrocento. The origins and development of medieval literature will be examined, leading up to Dante and the masterpieces of the Middle Ages, The Divine Comedy. The course will include a brief survey of Dante's minor works and their significance in terms of the life and culture of the times. The course also includes a study of the major works of Dante, the Divine Comedy and La Vita Nuova. The course will be conducted in Italian.
Exclusion: ITA010, ITA011
Prerequisite: ITA003
Session: Winter Day
A. Franceschetti

**ITA341** Chivalric Poetry of the Renaissance
A brief survey of the epic poetry of the Renaissance in Italy. The course will be conducted in Italian. Three hours per week.
Exclusion: ITA010, ITA011
Prerequisite: ITA003
Session: Spring Term
A. Franceschetti
ITAB36S  Lyric Poetry of the Renaissance (from Poliziano to Michelangelo)
An introduction to the study of the Italian Renaissance.
This course aims to provide the student with an understanding of the development of Italian lyric poetry from Petrarchism to Bemboism in the second half of the fifteenth and first half of the sixteenth centuries. Cultural background concerning these schools of literature and their dependence on neo-platonism will be provided in a series of lectures. In addition to the better-known participants in the above-mentioned schools, attention will be paid to a group of women writers among whom Victoria Colonna is foremost. Some anti-Petrarchist and anti-Bemboist poetry and some popular poetry will also be studied. Students will be invited, after a careful reading of the poetry, to participate in class discussion. All texts will be read in Italian, the language to be used for class discussion and for written assignments. This class will be devoted for the first time only.
Prerequisite: ITAB01 or ITAB10 or ITAB11.
Instructor: Winter Day
D. J. McAuliffe

ITAB44F  Manzoni
A study of Manzoni's lyric poetry, tragedies and Promessi Sposi.
The integral text of Promessi Sposi will be analyzed in its double role as seminal contribution to the history of Italian language and as literary masterpiece. Selections from Manzoni's minor works will be read and discussed in order to provide necessary background material for his narrative masterpiece. This course is recommended to those students interested primarily in language as well as those concentrating on literature, and no special preparation in literary studies is necessary. Class discussion will be conducted in Italian.
Prerequisite: ITAB01 or ITAB10 or ITAB11
Instructor: Winter Day
D. J. McAuliffe

JHIB71F  Italian Cinema
A survey of the development of Italian cinema from World War II to the present.
This film is followed by film viewing and discussion. Specialists in Italian will be expected to do their written work in Italian. This course is open to students with no previous knowledge of Italian language and culture to specialists in Italian. There is a screening fee of $10.00 for this course.
Exclusion: HIMB71, JHIB80
Session: Winter Evening

ITAC01Y  Language Practice
An advanced language course focusing on complex problems of Italian grammar, with readings, translations and compositions. This course is designed to give 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 exemplified with drills and exercises. Students will be asked to write short compositions. A selection of passages by modern Italian authors will provide the necessary material for stylistic analysis, summaries and paraphrases. Three hours of class per week.
Prerequisite: ITAB01 or ITAB10 or ITAB11
Instructor: Winter Day
A. Franceschetti

JITC50F-54F
JITC55S-59S
JITC55Y  Supervised Reading
These courses are designed to provide advanced students an opportunity to pursue independent study on specific aspects of Italian language and literature of their own choice. The students are expected to do most of the reading by themselves 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.
Prerequisite: One full-course equivalent in Italian literature
Session: Winter Day
Staff

Courses Not Offered in 1983-84

JAB05S  Practical Translation
Prerequisite: ITAB01 or ITAB10 or ITAB11

JAB12S  The Twentieth Century Novel
Prerequisite: ITAB01 or ITAB10 or ITAB11

JAB27S  Modern Italian Theatre from Pirandello to the Present
Prerequisite: ITAB01 or ITAB10 or ITAB11

JAB32S  Petrarch and Boccaccio
Prerequisite: ITAB01 or ITAB10 or ITAB11; a course in Italian literature, such as ITAB22F and ITAB23S is not recommended.

JAB35F  Italian Sixteenth Century Theatre
Prerequisite: ITAB01 or ITAB10 or ITAB11; a course in Italian literature, such as ITAB22F and ITAB23S is recommended but not required.

JAB40S  Reformation and Baroque Literature
Prerequisite: ITAB01 or ITAB10 or ITAB11

JAB43F/S  Foscolo and Leopardi
Prerequisite: ITAB01 or ITAB10 or ITAB11

JAB45F  The Nineteenth Century Italian Novel in Transition
Prerequisite: ITAB01 or ITAB10 or ITAB11

Joint Courses
For a description of these courses, please refer to the disciplines concerned:

Biology and Chemistry
JGBC55Y  Introduction to Biochemistry
JGBC36H  Laboratory in Chemistry

Commerce and Economics
JCEB54S  Industrial Relations
JCEB72F  Analysis for Decision Making I
JCEB73S  Analysis for Decision Making II
JCEC02Y  Corporation Finance
JCEC41S  Public Policy Towards Business
JCEC70F  Advanced Corporate Finance
JCEC75S  Investments

Commerce and Sociology
JCSB27Y  Organizational Behaviour

History and Philosophy
JHPC44Y  Canadian Social Issues

Humanities and German
JHGB50Y  The Development of German Drama
JHGB51Y  Masterpieces of the German Novel from the Eighteenth Century to the Present
JHGB52F  The Holocaust in German Literature

Humanities and Italian
JHIB71F  Italian Cinema

Humanities and Social Science
JHSA01Y  Introduction to Women's Studies
JHSS04Y  The Bloomsbury Group
JHSC01H  Senior Project in Women's Studies

Linguistics and Psychology
JLPB24S  Developmental Psycholinguistics
JLPB55F  Psycholinguistics

Mathematics and Computer Science
JMCC31F  Combinatorics
JMCC32F  Graph Theory and Algorithms for its Applications
JMCC51S  Numerical Methods

Mathematics and Philosophy
JVPB50F  Symbolic Logic
JVPB51S  Symbolic Logic II
Language and Literature

Physics and Astronomy
JPAC10Y  Relativity and Cosmology

Physics and Mathematics
JPMC42S  Advanced Classical Mechanics

Spanish and Drama
JSDB24F  Golden Age Drama

Specialist Programme
Supervisor: R. Barta (284-3205)

Students wishing to follow this Specialist Programme should complete the Major in Language and Literature in two of the following disciplines:
- English
- French
- Classical Studies (Greek or Latin)
- German
- Italian
- Russian
- Spanish

In addition, one full-course equivalent should be chosen from the following, the choice to be approved by the Supervisor:
- ENGB96Y  English Literary Criticism
- FARA10F  Ancient Art and Architecture
- FARA11F  Medieval Art
- FARA12F  Renaissance and Baroque Art
- FARA13S  Modern Art 1750 to the Present
- HUMA01Y  Prologue
- HUMA11Y  Greek and Roman Mythology
- PHILB3SF  Philosophy and Art
- PHILB4FI/S  Philosophy in Literature

Latin

Courses are offered in introductory Latin (LATA01, LATA10) and Latin literature (LATB01, LATB03, etc.).

- LATA01  Introductory Latin
- LATA10F  Introduction to Latin Authors
- LATB01S  Catullus
- LATB02F  Latin Authors II
- LATB3SF-34F  Latin Authors III
- LATB35S-39S  Latin Authors IV
- LB40Y  Supervised Reading
- LC01F-C02S  Independent Studies

Further information see under Classical Studies.

Linguistics

Discipline Representative: R. Binnick (284-3314)

Linguistics is the science of language. For the linguist, language is a phenomenon of the human mind and of human society. Not all linguists are exclusively concerned with the description of language (an interest reflected in LINA01, LINB11, and LINB04). Linguists draw on the findings of philosophy, psychology, sociology, and biology to create new frontiers of research. This new science is reflected in LINB07, JLPB55, JLPB24 and other courses.

Language is, of course, of interest to many people who see it as a humanistic and not a technical concern. To meet this interest we have designed such courses as LINA04, LINB26 and LINB27.

Specialist Programme in Linguistics
Supervisor: R. Binnick (284-3314)

The Specialist Programme in Linguistics may be taken in one of three ways, depending on whether the student wants to focus on general linguistics, psycholinguistics, or sociolinguistics. Each involves a core of four basic full-course equivalents, as follows:

1. LINA01Y  General Linguistics
2. LINB11Y  Syntax and Semantics
3. Two of:
   - LINB09F  Phonetics
   - LINB02S  Phonology
   - LINB04S  Historical and Comparative Linguistics
4. LINC21Y  Investigation of a Language
   or
   LINC22Y  Comparative Study of a Language Family or Area

In addition to these, students must choose one of the following three areas of concentration:

1. General Linguistics Concentration:
   Students must complete nine additional full-course equivalents, to be constituted as follows:
   5. LINB07Y  Sociolinguistics
      or two of:
      - JLPB24S  Developmental Psycholinguistics
      - JLPB55S  Psycholinguistics
   6. Four further full-course equivalents in Linguistics, not to include LINA04F/S

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One full-course equivalent from among the following courses:

ANT830Y Language and Culture
ENG801Y Old English Language and Literature
FREB25Y* Introduction to French
FREB42F* General History of the French Language
FRED43S* The French Language in Canada
FRED64Y* Theoretical and Practical Phonetics
GERB33S* Practicality in the History and Structure of the German Language
PHLB80F/S Philosophy of Language
SPA804F* Phonetics
SPA812S* History of the Spanish Language

* Students should check these courses for prerequisites or exclusions.

Two full-course equivalents in a language which is not the student’s native language.

The student must also, in addition to his native language and the language taken under (8), have some knowledge of a third language; this requirement can be satisfied by either: (a) a demonstration that the student is knowledgeable of that language (to be decided in consultation with the Supervisor), or (b) the student’s taking one further course in such a language at the university level.

II Psycholinguistics Concentration

Students must complete ten additional full-course equivalents, to be constituted as follows:

Five from:

JLP824S Developmental Psycholinguistics
JLP825F Psycholinguistics
LIN820F Second Language Learning
LIN821F Animal Communication and the Nature of Language
LIN829F Animal Communication

Two further full-course equivalents in Linguistics, not to include LIN804F/S

Either a (or b) two further full-course equivalents in Linguistics, or (b) two full-course equivalents in a language which is not the student’s native language. (If a is chosen, the student may satisfy this requirement by demonstrating that he or she has a knowledge equivalent to that acquired in two full-course equivalents at the University level (to be determined in consultation with the Supervisor).

III Sociolinguistics Concentration:
The student must complete nine additional full-course equivalents, to be constituted as follows:

All of the following:

LING80Y Sociolinguistics
SOC801Y Introduction to Sociology
SOC801Y Methods in Social Research

Two of:

SOC810Y Social Class and Social Stratification
SOC813Y Canadian Society
SOC816Y Social Change

Two further full-course equivalents in Linguistics, not to include LIN804F/S

Either (a) two further full-course equivalents in Linguistics, or (b) two full-course equivalents in a language which is not the student’s native language. (If a is chosen, the student may satisfy this requirement by demonstrating that he or she has a knowledge equivalent to that acquired in two full-course equivalents at the University level (to be determined in consultation with the Supervisor).

Major Programme in Linguistics

Supervisor: R. Binnick (284-3314)

Students must complete seven full-course equivalents, as follows:

1. LIN801Y General Linguistics
2. LIN802Y Phonetics
3. LIN803F Phonology
4. LIN804S Historical and Comparative Linguistics
5. LIN805F Second Language Learning

Students must also complete either four other full-course equivalents in LIN or three other full-course equivalents in LIN plus one C-level full-course equivalent in a language. (Only the first option is permitted when this programme is taken as part of the Modern Languages Specialisation Programme.) JLP824S and JLP825F can be included as LIN courses. LIN804F/S cannot be counted towards the Major.

LING801Y General Linguistics

An introduction to various methods of linguistic analysis, as well as to the form and content of language.

Topics such as the following will be included: the sound system of language, language universals, how languages change, how children acquire language.

This is a lecture course with discussion. The textbook is normally an introductory Linguistics book, such as Fromkin and Rodman, Introduction to Language.

Session: Winter Day

D. Woods, D. James, R. Binnick

LING804S Introduction to Language

A general introduction to the nature of language.

This is a non-technical introduction and cannot serve as a prerequisite for further courses in linguistics.

The course will examine language communication, under what conditions it takes place, how its form and changes when it is modified and affected by it. Topics such as the following will be covered: the relationship between human and animal systems of communication, and between language and culture; language change, how children learn language; bilingualism in Canada. There will be lectures, discussions, films.

Exclusion: LIN804 may not be taken by students who have credit for LIN801Y. LIN801 and LIN804 may not be taken in the same session.

Session: Winter Day

A. Whalen

LING805F Phonetics

The physiological and acoustical bases of language.

An examination of the means by which speech sounds are produced, and of the physical properties of these sounds. Emphasis will be placed on such practical considerations as phonetic transcriptions. We will discuss material from the text and problems which are to be solved.

Prerequisite: LIN801

Session: Winter Day

D. Woods

LING806F Scripts

Alphabets and other writing systems, their history, development and use. Hieroglyphics, Cuneiform, and other ancient scripts. History of the Latin and related alphabets.

There will be lectures and discussion, and some assignments.

Prerequisite: LIN801 or LIN804

Session: Winter Day

R. Binnick

LING809F Phonetics

The physiological and acoustical bases of language.

An examination of the means by which speech sounds are produced, and of the physical properties of these sounds. Emphasis will be placed on such practical considerations as phonetic transcriptions. We will discuss material from the text and problems which are to be solved.

Prerequisite: LIN801

Session: Winter Day

D. Woods

LING801Y General Linguistics

An introduction to various methods of linguistic analysis, as well as to the form and content of language.

Topics such as the following will be included: the sound system of language, language universals, how languages change, how children acquire language.

This is a lecture course with discussion. The textbook is normally an introductory Linguistics book, such as Fromkin and Rodman, Introduction to Language.

Session: Winter Day

D. Woods, D. James, R. Binnick

LING804S Introduction to Language

A general introduction to the nature of language.

This is a non-technical introduction and cannot serve as a prerequisite for further courses in linguistics.

The course will examine language communication, under what conditions it takes place, how its form and changes when it is modified and affected by it. Topics such as the following will be covered: the relationship between human and animal systems of communication, and between language and culture; language change, how children learn language; bilingualism in Canada. There will be lectures, discussions, films.

Exclusion: LIN804 may not be taken by students who have credit for LIN801Y. LIN801 and LIN804 may not be taken in the same session.

Session: Winter Day

A. Whalen

LING805F Phonetics

The physiological and acoustical bases of language.

An examination of the means by which speech sounds are produced, and of the physical properties of these sounds. Emphasis will be placed on such practical considerations as phonetic transcriptions. We will discuss material from the text and problems which are to be solved.

Prerequisite: LIN801

Session: Winter Day

D. Woods

LING806F Scripts

Alphabets and other writing systems, their history, development and use. Hieroglyphics, Cuneiform, and other ancient scripts. History of the Latin and related alphabets.

There will be lectures and discussion, and some assignments.

Prerequisite: LIN801 or LIN804

Session: Winter Day

R. Binnick

LING809F Phonetics

The physiological and acoustical bases of language.

An examination of the means by which speech sounds are produced, and of the physical properties of these sounds. Emphasis will be placed on such practical considerations as phonetic transcriptions. We will discuss material from the text and problems which are to be solved.

Prerequisite: LIN801

Session: Winter Day

D. Woods
LINB11Y Syntax
The study of sentence structure, including the major grammatical processes. Some of the topics to be studied are transformational rules, the principle of the cycle, the relationship between syntax and semantics.
This is primarily a lecture course with discussions. The textbook is normally on introductory syntax text, such as Akamian and Heny, Introduction to Transformational Syntax.
Prerequisite: LINB11
Session: Winter Day
D. James

JLPB24S Developmental Psycholinguistics
The development of the facility for speech in childhood. Acquisition of first language. The neurological pre- requisites for speech and writing.
There will be lectures and discussions.
Exclusion: LINB15
Prerequisite: One full-course equivalent in LIN or PSY.
Session: Winter Day
A. Gopnik

LINB27S Animal Communication and the Nature of Language
An examination of some animals’ communicative and what can tell us about how to form a theory of language.
Topics include: non-human communication, the relationship of human language to animal communication, non-linguistic communication by humans.
Lectures, discussion and films.
Prerequisite: One course in LIN, PSY, or SOC or ANT.
Session: Winter Day
S. Whalen

LINB28S Language and Sex
Linguistic differences between males and females as regards the structure and use of language, and what languages can tell us about how males and females are viewed by their speakers.
Do women speak more correctly “than men?” Is women’s speech more polite? Do men speak more forcefully? Do women talk more than men? Evidence for and against such hypotheses will be discussed. Sex-linked speech differences in other languages will also be examined and also non-verbal communication. In addition, we will look at phenomena which reveal attitudes towards the sexes, such as sex-exclusive derogatory terms and the use of noun classifiers in various languages. The underlying causes of these phenomena will be discussed. There will be lectures and discussions.
Prerequisite: One full course or equivalent in LIN, SOC, ANT, ENG, or PSY.
Session: Winter Day
R. Binmick

LINB28F Disorders of Speech and Language
An investigation of problems of speech and language of adults and children. This course examines various types of language difficulties due to brain damage, developmental problems of general cognitive disorders, with a view to better understanding both these disorders and normal language development and use.
Prerequisites: One full-course equivalent in either PSY or LIN.
Session: Winter Day
A. Gopnik

JLPB35F Psycholinguistics
Theories and experiments that address the question: how is language comprehended and produced? Linguistic theories that form the basis of psychological theories and the experimental evidence for and against each theory are reviewed, and an overview of current work in the field is offered.
The concern of the field of Psycholinguistics is the relationship between the observed phenomena of language and the unobservable operations of the human brain, the reality of the structures and units proposed by linguistics, the acquisition of language by the child, and the relationship between human language and phylogenetic is discussed.
Lectures, films and discussion.
Prerequisite: One full-course equivalent in LIN or PSY.
Session: Winter Day
A. Gopnik

LINC01F Sociolinguistics
Prerequisite: LINB1Y or SOCA01Y or SOCA02Y; LINA04F/S with permission of instructor.
Session: Winter Day
R. Binmick

LINC02S Semantics
Prerequisite: LINB11Y
Session: Winter Day
A. Gopnik

LINC03S Symbolic Learning
Prerequisite: LINB1Y or LINA04F/S or one course in Psychology or Anthropology.
Session: Winter Day
R. Binmick

LINC04S Studies in Syntax and Semantics
Prerequisite: LINB11Y
Session: Winter Day
R. Binmick

LINC01Y supervised reading
Interested students should contact Professor R. Binmick, Discipline Representative. The aim of these courses is to allow the advanced student of Linguistics to engage in research, this research is normally at a level which is more advanced than other Linguistic courses which the student has already taken, and in an area which is not the student’s own choosing. Methods of research and evaluation are as varied as the possible areas of research.
Prerequisite: At least one B-level full-course or equivalent in Linguistics; permission of instructor.
Session: Winter Day
R. Binmick

LINC21Y Investigation of a Language
Prerequisite: At least one B-level full-course or equivalent in Linguistics; permission of instructor.
Session: Winter Day
D. James

LINC22Y Comparative Study of Language Family or Area
Prerequisite: LINB11Y, or LINB2S and LINA04F
Session: Winter Day
R. Binmick

LINC23Y Comparative Study of Language or Area
Prerequisite: LINB11Y, or LINB2S and LINA04F
Session: Winter Day
R. Binmick

Mathematics
Staff member responsible for curriculum: P. Leah (284-3192)
The development of mathematics was induced by the inherent need to describe and analyse elements of the physical world as accurately as possible. Applied mathematics and statistics are still concerned with the building of models for use in real-world contexts. Pure mathematics is concerned with systems of axioms and the true statements or theorems which can be deduced from them. While pure mathematics is 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 methods of reasoning employed suggests that most students could profit by taking some courses in mathematics.

Comparison of A Level Calculus Courses
MATAS5Y Calculus with Analysis
MATAS6Y Calculus
MATAS7Y Techniques of Calculus
MATAS8S is an open course. The emphasis is on why theorems are true, and students are expected to learn how to do research and how to develop proofs themselves. A student who completes MATAS6Y together with MATAS8S may take any of the second year Mathematics courses.
MATAS6Y is a practical course taught at a high level. The emphasis is on applications rather than pure mathematics. A student who completes MATAS6Y may take MATB4F, MATB42S, STAB55, STAB57 in second year.
MATAS27 is intended for those Commerce and Economics students who do not expect to take MATB4F, MATB42S in second year.

Specialist Programmes in Mathematics
Supervisor: P. Leah (284-3192)
The Specialist Programme is designed to give students a thorough grounding in the main areas of Mathematics. It is aimed at those students who may wish to pursue a career in mathematical research, teaching or in applications within government and industry.
In this Programme a total of eleven full-course equivalents is required:

Courses Not Offered in 1983-84
LINA07Y Sociolinguistics
LINA12S Semantics
LINA25F Symbolic Language Learning
LINA28S Languages of the World
LINC01Y Studies in Syntax and Semantics
LINC12F Dialectology
LINC22Y Comparative Study of Language Family or Area
LINC23Y Comparative Study of Language or Area
LINC24Y Comparative Study of Language or Area
LINC25Y Comparative Study of Language or Area
MATA28Y Calculus
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.
MATA26Y 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. MATA26Y is a demanding course which will equip the student for most sciences and for further work in mathematics.
Exclusion: (MATA25, MATA29, MATA55)
Prerequisite: Grade 13 Calculus
Session: Winter Day, Summer Evening

MATA27Y Techniques of Calculus
Limits and continuity, derivatives, applications to related rates and extremum problems, graph sketching, Rolle's theorem and Mean Value Theorem, indefinite and definite integrals, L'Hospital's rule, partial differentiation, Lagrange multipliers, first order differential and difference equations, elementary matrix algebra.
Students must have a calculator with memory and the exponential, logarithmic and trigonometric functions and their inverses. MATA27 is intended for students in Commerce and Economics students who are not expecting to take MATB41/42.
Exclusion: (MATA22), MATA26, MATA55
Prerequisite: Grade 13 Functions and Relations, Grade 13 Calculus
Session: Winter Day

MATB25Y Geometry
Prerequisites: Grade 13 Functions and Relations, Grade 13 Calculus
Session: Winter Day

MATB42S Techniques of the Calculus of Several Variables II
Exclusion: MATB50, MATB55
Prerequisite: MATB41
Session: Winter Day

MATB43S Introduction to Analysis
The least upper bound principle for R, limits in R and R^n, continuous functions in one and two variables, space filling curves and nowhere differentiable functions, existence of extrema on closed and bounded sets, mean value theorems and the fundamental theorems of the calculus, the Riemann integral.
This course is designed for students whose interest in mathematics has been stimulated by their experience in the A26 - B41 - B42 stream and who wish to acquire the analytic techniques which are essential for more advanced work. In particular MATB43S together with MATB42S may be used instead of MATB55S for prerequisite purposes. There will be a fundamental emphasis on rigorous analytic proofs.
Exclusion: MAT55
Prerequisites: MATB44, MATB45
Corequisite: MATB42
Session: Winter Day
MAT850F Analysis I

JMPB50F Symbolic Logic
An introduction to formal techniques of reasoning, sentential logic, and quantification theory or predicate logic.
An introduction to formal techniques of reasoning, deduction and inductive, the course covers sentential logic, quantification theory, or predicate logic and elements of probability theory. The emphasis is on appreciation of and practice in techniques, for example, for formal analysis of English statements and arguments, and for construction of clear and rigorous proofs. Topics of more theoretical interest are presented in lectures supported by essays and other materials by the instructor, copies of which are distributed, but the emphasis is on techniques. D. Kalish, R. Montague, and G. Mar, Logic: Techniques of Formal Reasoning (for deductive techniques only).
Session: Winter Day J.H. Sobel

MATB55S Analysis II
The topology of the n-dimensional Euclidean space. Multiple integrals and transformation of variables. Integration of n-forms. Exterior calculus. Line integrals, winding number, Green's theorem. Surface integrals and Stokes' theorem. (Mathematical rigour is emphasized.)
Three lectures per week.
Exclusion: MATB41, MATB42. Prerequisite: MATB50 Session: Winter Day

MATB70S Introduction to Number Theory
Some elementary properties of integers. Prime numbers. Congruences. Diophantine equations. Quadratic residues. Rational approximation. MATB70S will be an exploratory course. The material to be studied will be chosen on its own merit, not for its future usefulness. Number theory is one of the oldest and most beautiful branches of pure mathematics and this course should provide an idea of why it has fascinated mathematicians for so long. It is not intended to be a difficult course but enthusiasm and hard work will be essential. Three lectures per week.
Prerequisite: MATA45 Session: Winter Day

JMCC52F Graph Theory and Algorithms for its Applications
Graphs, subgraphs, isomorphism, trees, connectivity, Euler and Hamiltonian properties, matchings, vertex and edge colourings, planarity, network flows and strongly regular graphs. A selection of applications to such problems as timetabling, personnel assignment, tank form scheduling, travelling salesmen, tournament scheduling, experimental design and finite geometries. Explicit algorithms and their computational complexity will be discussed whenever possible.
Prerequisite: MATB44 (MATC44) and at least one other B-level course in Mathematics or Computer Science Session: Winter Day

JMPC42S Advanced Classical Mechanics
Prerequisite: PHYA93 (PHYA92); MATC51 Session: Winter Day

MATC49S Algebraic Structures II
Isomorphism theorems. Sylow theorems. Finite fields, algebraic closure, the fundamental theorem of Galois theory. The principle of constructing a regular polygon and trisecting an angle.
Prerequisite: MATB49 Session: Winter Day

MATC51F Differential Equations I
Prerequisite: MATB42 or MATB50 (or MATB50 may be taken concurrently) Session: Winter Day

UMCC51S Numerical Methods
Numerical methods and their implementation on a computer. Solution of linear and non-linear equations. II conditioned problems and error estimates. Numerical integration and solution of initial value problems for ordinary differential equations. This course is an introduction to the numerical solution of several types of mathematical problems. The emphasis will be on the analysis of a few reliable methods and on their comparison, for each class of problem. All the algorithms that will be used are available in a software library, so that programming will be restricted to the writing of short driving and linking programmes. Eight or nine assignments will be given.
The language of the packaged programmes is FORTRAN, for which a brief review will be given.
Exclusion: MATB53. Prerequisite: MATA40, MATB42 or MATB55, CSCA68 Session: Winter Day

MATC53Y Real Analysis

JMPC54F Differential Geometry I
Prerequisite: MATA45, MATB42 or MATB55. Prerequisite: MATC51 Session: Winter Day

JMPC51S Symbolic Logic II
A continuation of JMPB50F.
The natural deduction system studied in Symbolic Logic I is extended to cover identity and deﬁnite descriptions. Special attention is paid to the restriction of the identity calculus to "extensional" terms and formulae. Alternative treatments of deﬁnite descriptions, one that follows Frege, the other that follows Russell, are developed and compared.
The text is D. Kalish, R. Montague and G. Mar, Logic: Techniques of Formal Reasoning. Prerequisite: JMPB50 Session: Winter Day J.H. Sobel

MATC60F Complex Analysis I
Prerequisite: MATB55 or MATB42 Session: Winter Day

MATC65S Complex Analysis II
Applications of complex analysis to geometry, physics and number theory. Fractional linear transformations and the Riemann surface. Solution to the Dirichlet problem by conformal mapping and the Poisson kernel. The Riemann mapping theorem. The prime number theorem.
Prerequisite: MATC60. Session: Winter Day

STAB52F Probability and Statisitics I
Exclusion: ECOB11. (MATB52) Prerequisite: MATA26, MATA27 or MATA55 Session: Winter Day
Courses Not Offered in 1983-84

**MAT2SS** Thinking Mathematically
Prerequisite: One Year 5 (Grade 13) course in Mathematics or permission of instructor.

**MATC32S** Advanced Topics in Mathematics
Prerequisite: MATA45, MATB42 or MATB55

**JMCC31F** Combinatorics
Prerequisite: MATB44 (MATC44) and at least one other B-level course in mathematics or computer science.

**MATC43F** Linear Algebra III
Exclusion: (MATB45)
Prerequisite: MATB34

**MATC56S** Differential Equations II
Prerequisite: MATC51 (or MATB51)

**STAC52S** Experimental Design
Exclusion: PSYB08
Prerequisite: STAB57

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**Medieval Civilization**

The courses in these Programmes encompass the breadth of European and Mediterranean culture running from the late Roman Period and culminating, in the West, in the Renaissance of the fifteenth century.

**Specialist Programme in Medieval Civilization**
Supervisor: M. Gervers
Students will be expected to complete ten full-course equivalents from the following areas:
1. The Arts (Fine Art, Archaeology, Drama and Music)
2. History
3. Language and Literature
4. Philosophy and Religion

Students are to select three full-course equivalents each from three of the four areas, and one from the remaining area. HISB06Y is required of all participants. Two of the ten full-course equivalents must be C-level seminars or C-level reading courses requiring major research papers. Independent study in areas not otherwise covered, such as historical geography and linguistics, may be undertaken through reading courses. The curriculum can be supplemented according to the rules of the College by courses on the St. George campus. Course selection must be approved by the Supervisor.

**Language and Literature**

- **Old English Language and Literature**
  - **HISB01Y**
  - **HISB02Y**
  - **HISB02Y**

- **Chaucer**
  - **HISB02Y**

- **English Drama to 1642**
  - **HISB02Y**

- **Advanced Studies in Beowulf and Other Old English Poetry**
  - **HISB02Y**

- **Studies in Modern English Language and Literature**
  - **HISB02Y**

- **General History of the French Language**
  - **HISB02Y**

- **Introduction to Medieval French Language and Literature**
  - **HISB02Y**

- **Practicum in the History and Structure of the German Language**
  - **HISB02Y**

- **Introduction to Middle High German**
  - **HISB02Y**

- **Lyric Poetry of the Middle Ages in the Mediterranean Area**
  - **HISB02Y**

- **Dante and Medieval Culture**
  - **HISB02Y**

- **Petrarch and Boccaccio**
  - **HISB02Y**

- **Introductory Latin**
  - **HISB02Y**

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**Major Programme in Medieval Civilization**
Supervisor: M. Gervers
Students will be expected to complete seven full-course equivalents from the following four areas:
1. The Arts (Fine Art, Archaeology, Drama and Music)
2. History
3. Language and Literature
4. Philosophy and Religion

Students are to select two full-course equivalents each from three of the four areas, and one from the remaining area. HISB05Y is required of all participants. One of the seven full-course equivalents must be a C-level seminar or C-level reading course requiring a major research paper. Independent study in areas not otherwise covered, such as historical geography and linguistics, may be undertaken through reading courses. The curriculum can be supplemented according to the rules of the College by courses on the St. George campus. Course selection must be approved by the Supervisor.
Modern Languages

Specialist Programme
Supervisor: G. Tremblay (284-3315)
The Modern Languages Specialist Programme enables a student to gain a high degree of fluency in two languages, or in one language together with a concentration in Linguistics. In the case of every combination, there is a common core for the programme consisting of LIN401Y General Linguistics, and a choice from a set of courses which relate languages to broader social and historical or cultural areas. There are possible combinations as follows: French and German, French and Italian, French and Spanish, German and Italian, German and Spanish, Italian and Spanish, French and Linguistics, German and Linguistics, Italian and Linguistics, Spanish and Linguistics.

For every combination, students must satisfy the following requirements:

1. The courses listed under the Major Programmes in two of: French, German, Italian, Linguistics, Spanish.
2. LIN401Y General Linguistics
3. Choose one full-course equivalent from the following, for every combination other than French/Spanish:
   - AN101Y Introduction to Anthropology
   - ANT130Y Language and Culture
   - HIS101Y European World
   - HUMA101Y Prolegomena

Note: Although there is no Russian Language Major Programme, students may combine the Russian Language and Literature Major or the Russian and Related Studies College Programme with any of the above mentioned Language Programmes.

Music

Discipline Representative: T. J. McGee
Music is one of the liberal arts. The courses at Scarborought emphasize a humanistic approach to the subject and stress the relationship of Music to other subjects such as Fine Art, Drama, History, Languages and Literatures, and Philosophy. Individual musical works are studied from two broad points of view, the critical and the historical. The first approach examines the single composition and attempts to understand, explain and evaluate its significance as art. The second approach sees the particular work as an example of larger stylistic tendencies and tries to explain these in a historical context. Both approaches rely on the sensitivity of the listener and his ability to communicate. Much of the course work, therefore, is directed towards improving the student's aural awareness and his ability to think and write clearly about all types of music.

All students are encouraged to take advantage of the various opportunities which exist in the College for practical music making.

Major Programme in Music
Supervisor: T. J. McGee (284-3126)
Students are required to complete a total of six full-course equivalents in Music and related areas. The six courses will be made up as follows:

1. MUS401Y Introduction to Music
2. MUS417F/S Materials of Music I
3. Two full-course equivalents from:
   - MUS404F/S Music of the Renaissance
   - MUS405F/S Music of the Baroque Era
   - MUS420F Music of the Classic Period
   - MUS406F/S Music of the Romantic Period
   - MUS410V  Music of the Twentieth Century
   - (also available on St. George campus as MUS4011, when not offered at the College.)
4. One and one half full-course equivalents chosen from MUS courses.
To satisfy the requirements of this section, students may substitute in consultation with the Supervisor one or more of the MUS courses offered on the St. George campus (but see p. 00, i.e. information on limitation of courses).
5. One additional full-course equivalent in Music or another relevant discipline. The following courses are recommended: PHL803F Philosophy and Art, PHL823 Early Renaissance, Art in Florence, HUMB650 Michelangelo and the Italian Renaissance, GER25Y German Civilization and Culture, DRAB30Y The History of Theatre.

MUS401Y Introduction to Music
A study of the basic materials, principles of composition, and historical and cultural significance of representative works of Western and Non-Western music, including popular music from the Middle Ages to the present. No musical training is required.

MUS417F/S Materials of Music I
A survey of the style changes in Western music from the Middle Ages to the present. The music is approached in terms of technical construction and stylistic characteristics, and in relation to social, economic, and intellectual developments. The evolution of styles of the various periods is emphasized as well as the individual characteristics of selected works. There will be three lecture hours per week.

Session: Winter Day
T. J. McGee

MUS405F/S Music of the Baroque Era
A survey of the style changes in Western music from the Middle Ages to the present. The music is approached in terms of technical construction and stylistic characteristics, and in relation to social, economic, and intellectual developments. The evolution of styles of the various periods is emphasized as well as the individual characteristics of selected works. There will be three lecture hours per week.

Session: Winter Day
T. J. McGee

MUS406F/S Music of the Romantic Period
A survey of the style changes in Western music from the Middle Ages to the present. The music is approached in terms of technical construction and stylistic characteristics, and in relation to social, economic, and intellectual developments. The evolution of styles of the various periods is emphasized as well as the individual characteristics of selected works. There will be three lecture hours per week.

Session: Winter Day
T. J. McGee

MUS410V Music of the Twentieth Century
A survey of the style changes in Western music from the Middle Ages to the present. The music is approached in terms of technical construction and stylistic characteristics, and in relation to social, economic, and intellectual developments. The evolution of styles of the various periods is emphasized as well as the individual characteristics of selected works. There will be three lecture hours per week.

Session: Winter Day
T. J. McGee

MUS420F Music of the Classic Period
A survey of the style changes in Western music from the Middle Ages to the present. The music is approached in terms of technical construction and stylistic characteristics, and in relation to social, economic, and intellectual developments. The evolution of styles of the various periods is emphasized as well as the individual characteristics of selected works. There will be three lecture hours per week.

Session: Winter Day
T. J. McGee

MUS404F/S Music of the Renaissance
A survey of the style changes in Western music from the Middle Ages to the present. The music is approached in terms of technical construction and stylistic characteristics, and in relation to social, economic, and intellectual developments. The evolution of styles of the various periods is emphasized as well as the individual characteristics of selected works. There will be three lecture hours per week.

Session: Winter Day
T. J. McGee

MUS4011 Introduction to Music
A study of the basic materials, principles of composition, and historical and cultural significance of representative works of Western and Non-Western music, including popular music from the Middle Ages to the present. No musical training is required.

MUS417F/S Materials of Music I
A survey of the style changes in Western music from the Middle Ages to the present. The music is approached in terms of technical construction and stylistic characteristics, and in relation to social, economic, and intellectual developments. The evolution of styles of the various periods is emphasized as well as the individual characteristics of selected works. There will be three lecture hours per week.

Session: Winter Day
T. J. McGee

MUS405F/S Music of the Baroque Era
A survey of the style changes in Western music from the Middle Ages to the present. The music is approached in terms of technical construction and stylistic characteristics, and in relation to social, economic, and intellectual developments. The evolution of styles of the various periods is emphasized as well as the individual characteristics of selected works. There will be three lecture hours per week.

Session: Winter Day
T. J. McGee

MUS406F/S Music of the Romantic Period
A survey of the style changes in Western music from the Middle Ages to the present. The music is approached in terms of technical construction and stylistic characteristics, and in relation to social, economic, and intellectual developments. The evolution of styles of the various periods is emphasized as well as the individual characteristics of selected works. There will be three lecture hours per week.

Session: Winter Day
T. J. McGee

MUS410V Music of the Twentieth Century
A survey of the style changes in Western music from the Middle Ages to the present. The music is approached in terms of technical construction and stylistic characteristics, and in relation to social, economic, and intellectual developments. The evolution of styles of the various periods is emphasized as well as the individual characteristics of selected works. There will be three lecture hours per week.

Session: Winter Day
T. J. McGee

MUS420F Music of the Classic Period
A survey of the style changes in Western music from the Middle Ages to the present. The music is approached in terms of technical construction and stylistic characteristics, and in relation to social, economic, and intellectual developments. The evolution of styles of the various periods is emphasized as well as the individual characteristics of selected works. There will be three lecture hours per week.

Session: Winter Day
T. J. McGee

Performance Courses
The following performance courses are also available to students on a non-credit basis and are open to all faculty and staff members. Entrance for all participants is by audition. Credit students should preregister but will not be admitted to the course unless granted permission of the Instructor during the first week of classes. Students may not take more than two half-course equivalents for credit in these courses.

MUS401Y Introduction to Music
A study of the basic materials, principles of composition, and historical and cultural significance of representative works of Western and Non-Western music, including popular music from the Middle Ages to the present. No musical training is required.

MUS417F/S Materials of Music I
A survey of the style changes in Western music from the Middle Ages to the present. The music is approached in terms of technical construction and stylistic characteristics, and in relation to social, economic, and intellectual developments. The evolution of styles of the various periods is emphasized as well as the individual characteristics of selected works. There will be three lecture hours per week.

Session: Winter Day
T. J. McGee

MUS405F/S Music of the Baroque Era
A survey of the style changes in Western music from the Middle Ages to the present. The music is approached in terms of technical construction and stylistic characteristics, and in relation to social, economic, and intellectual developments. The evolution of styles of the various periods is emphasized as well as the individual characteristics of selected works. There will be three lecture hours per week.

Session: Winter Day
T. J. McGee

MUS406F/S Music of the Romantic Period
A survey of the style changes in Western music from the Middle Ages to the present. The music is approached in terms of technical construction and stylistic characteristics, and in relation to social, economic, and intellectual developments. The evolution of styles of the various periods is emphasized as well as the individual characteristics of selected works. There will be three lecture hours per week.

Session: Winter Day
T. J. McGee

MUS410V Music of the Twentieth Century
A survey of the style changes in Western music from the Middle Ages to the present. The music is approached in terms of technical construction and stylistic characteristics, and in relation to social, economic, and intellectual developments. The evolution of styles of the various periods is emphasized as well as the individual characteristics of selected works. There will be three lecture hours per week.

Session: Winter Day
T. J. McGee

MUS420F Music of the Classic Period
A survey of the style changes in Western music from the Middle Ages to the present. The music is approached in terms of technical construction and stylistic characteristics, and in relation to social, economic, and intellectual developments. The evolution of styles of the various periods is emphasized as well as the individual characteristics of selected works. There will be three lecture hours per week.

Session: Winter Day
T. J. McGee
Myth and Religion

Supervisor: J. H. Corbett (284-3182)

This Programme combines an examination of human perception and experience of our religious and mythic heritage and institutions from the anthropological, historical, philosophical, sociological and literary points of view.

College Programme in Myth and Religion

Supervisor: J. H. Corbett

Nine full-course equivalents to be completed as follows:

- **HUMA01Y** - Prologue
- **HUMA10Y** - Introduction to the Study of Religion
- **HUMA11Y** - Greek and Roman Mythology
- **PHLA01Y** - Fundamental Questions of Philosophy
- **ANTAO1Y** - Introduction to Anthropology
- **SOCA01Y** - Introduction to Sociology
- **HISA01Y** - The European World: An Introduction to History
- **ANTB23Y** - Comparative Mythology
- **HUMB22Y** - Major Religious Traditions, East and West
- **HUMB20Y** - Primitive Christian Literature & Myth
- **HUMC10Y** - Humanities Seminar

Total: 9 full-course equivalents

See below for additional courses and prerequisites:

- **HISC43F/S** - Selected Topics in Canadian Religious History
- **HISC62Y** - The Crusades
- **HUMB51F/S** - The Literature of the Spanish Mystics
- **HUMB29F/S** - Religion and Western Culture
- **HUMB39F/S** - The Iliad and Odyssey
- **HUMB39F/S** - Earth
- **PHLB41F** - Philosophers of the Middle Ages I
- **PHLB44S** - Philosophers of the Middle Ages II
- **PHLB61F/S** - Philosophy of Religion
- **SOCC01Y** - History of Social Thought
- **SOCC20F/S** - Sociology of Religion

* Students should check these courses for prerequisites.

MUSB20H Supervised Performance I — Chorus

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 in conjunction with members of the instrumental performance programme. Previous choral experience desirable but not essential. The course meets 2 hours per week for rehearsals with MUSB21H.

Exclusion: MUSB20H and MUSB10H

Pre or Corequisite: MUSA01Y

Session: Winter Day

J. Mayo

MUSB21H Supervised Performance II — Chorus

A continuation of MUSB20H.

Exclusion: MUSB10H

Pre or Corequisite: MUSB09H or MUSB20H

Session: Winter Day

J. Mayo

MUSB22H Supervised Performance I — Instrumental

The practical study of ensemble performance.

Students work in small ensembles (duets, trios, quartets) arranged to suit the abilities of individual performers 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, one hour with all students of MUSB22H and one hour with a master class and one hour for group rehearsal and/or coaching.

See timetable for time of master class; group rehearsal times to be arranged in first week of term.

Exclusion: MUSB09H/B10H

Pre or Corequisite: MUSA01Y

Session: Winter Day

J. Mayo

MUSB23H Supervised Performance II — Instrumental

A continuation of MUSB22H.

Exclusion: MUSB10H

Pre or Corequisite: MUSB22H or MUSB09H

Session: Winter Day

J. Mayo

Courses Not Offered in 1983-84

- **MUSB04F** — Music of the Renaissance
  - Prerequisite: MUSA01
- **MUSB05S** — Music of the Baroque Era
  - Prerequisite: MUSA01
- **MUSB06S** — Music of the Romantic Period
  - The Symphony
  - Prerequisite: MUSA01 or (MUSB08)
- **MUSB11F** — Music for the Theatre
  - Prerequisite: MUSA01 or permission of instructor.
- **MUSB13F** — Bach
  - Prerequisite: MUSB09
- **MUSB14F** — Jazz
- **MUSB15F** — Music in Elizabethan England
  - Prerequisite: MUSA01
- **MUSB18S** — Beethoven
  - Prerequisite: MUSA01
Natural Science

Sciences for the Citizen.

What is a quasar? How many defective genes am I carrying? How many dollars should Canada spend in support of nuclear fusion research? What is a laser? Why didn’t the Green Revolution work? Such questions about the late twentieth century view of the universe in which we live, about the complex technology which affects our present lives and changes public issues are difficult to answer without some knowledge of the methods and concepts of the natural sciences. The courses listed below may help those students whose primary interests are in the humanities or social sciences and who may lack high school science or mathematics to come into touch with contemporary science.

Courses Not Offered in 1983-84

NSCA01Y Introduction to Natural Science: The Physical Sciences
Exclusion: PHYA02 or PHYA03 (or PHYA01)

NSCA02Y Introduction to Natural Science: The Biological Sciences
Exclusion: Not open to students who are taking or have taken BIOA03
For (NSCA02Y) QUAA03Y and (NSCA02Y) QUAB02Y QUAC01Y see Quaternary Studies

Students should also refer to the following courses:
ASTA03Y Introduction to Astronomy
GLGA02S Geology in the Urban Environment
HUMC11Y The Darwinian Revolution
MAT225S Thinking Mathematically
PHLB70Y Philosophy of Science
PHLB77S Contemporary Philosophical Issues
BMEH11Y Biomedical Ethics
SOCI11Y Sociology of Science

Neurosciences

As an area of study the Neurosciences has amalgamated aspects of a variety of disciplines with the goal of understanding behavioural, biological and biochemical processes in nervous systems. Techniques borrowed from constituent disciplines like anatomy, physiology, biochemistry, psychology and pharmacology have been successfully applied to unravel some of the mysteries of the brain and its mechanisms of action. Investigators in the Neurosciences have made fundamental contributions in the clinical aspects of medicine and health policy.

The Specialist Programme in Neurosciences primarily includes courses from the two major contributing disciplines of Psychology and Biology. It has been designed for students wishing to pursue graduate training in the Neurosciences or related fields, as well as those wishing greater depth and more direct experience than is provided by the Major Programme. The Major Programme is intended to provide a comprehensive exposure to the main content areas in the Neurosciences and recommended for those students interested in the breadth of knowledge concerning the brain and related systems.

Specialist Programme in Neurosciences
Supervisor: T. L. Petit (284-3321)
The programme requires completion of eleven and one-half full-course equivalents plus four full courses in psychology and cognate disciplines. Effective courses should be chosen in consultation with your adviser or the supervisor. The following outline includes these required courses and indicates the most advantageous sequencing.

1. To be completed in the first year of full-time study (or equivalent).
   - PSY01Y Introduction to Psychology
   - BIOA03Y Introductory Biology
   - CHMA02Y General Chemistry (MATA22Y) (Introduction to Calculus)
   - MAT225Y Calculus (or equivalent)

2. To be completed by the end of the second year of full-time study (or equivalent).
   - CHMB05Y Organic Chemistry I
   - PSYB07F Data Analysis in Psychology
   - BIOB17Y General and Comparative Physiology
   - PSYB06F Brain Mechanisms and Behaviour I
   - PSYB01S Brain Mechanisms and Behaviour II: Physiology of Motivation and Learning

3. To be completed by the third year of full-time study (or equivalent).
   - PSYB05Y Introductory Biochemistry
   - CBB04H Human Anatomy
   - PSYB02Y Research in Physiological Psychology
   - PHYA03Y Physics for the Life and Physical Sciences

The three effective full-course equivalents available in the second and third year, one and one-half must be selected from the list below:

- PSYB06S Clinical Psychopharmacology
- PSYB05S Clinical Psychopharmacology and One-half Full-course Equivalent

Students planning advanced study in the Neurosciences are advised to consider:
- PSYB06S Thesis in Psychology
- PSYB01Y/PSYB02Y Supervised Study in Psychology
- PSYB03Y Supervised Study in Neurosciences

Major Programme in Neurosciences
Supervisor: T. L. Petit (284-3321)
A programme requires seven and one-half full-course equivalents. Students who might consider completing a Four-Year Degree are encouraged to include in the electives below the following courses: PSYB03Y, CHMB05Y, CHMB06Y, CHMB35 and JBCB36, so that they would be eligible for the specialist programme.

The following outline indicates the required areas and the most advantageous sequencing of the Major Programme in Neurosciences.

1. To be completed in the first year of full-time study (or equivalent).
   - PSY01Y Introduction to Psychology
   - BIOA03Y Introductory Biology
   - CHMA02Y General Chemistry (MATA22Y) (Introduction to Calculus)
   - MAT225Y Calculus (or equivalent)

2. To be completed by the end of the second year of full-time study (or equivalent).
   - CHMB05Y Organic Chemistry I
   - PSYB07F Data Analysis in Psychology
   - BIOB17Y General and Comparative Physiology
   - PSYB06F Brain Mechanisms and Behaviour I
   - PSYB01S Brain Mechanisms and Behaviour II: Physiology of Motivation and Learning

3. To be completed by the third year of full-time study (or equivalent).
   - PSYB05Y Introductory Biochemistry
   - CBB04H Human Anatomy
   - PSYB02Y Research in Physiological Psychology
   - PHYA03Y Physics for the Life and Physical Sciences

Students are advised to consult the supervisor to consider selecting some electives from the list below:

The relevant Neurosciences courses available at the St. George or Erindale campuses in such departments as Anatomy, Biochemistry, Pharmacology, Physiology, Psychology and Zoology may be used to satisfy a required or elective course in either the Specialist of Major Programmes, with the permission of the supervisor of studies.

Students in both Specialist and Major Programmes should obtain a copy of the Neurosciences Programme booklet which provides general information including the research and special interests of faculty members, and a listing of relevant courses from the other campuses.

List of Concentration Electives

Students should consult with the supervisor of studies concerning the availability of courses and possible changes in this listing.

- PSYB01S Introduction to Psychological Research
- PSYB02S Experimental Design in Psychology
- PSYB09S (General Experimental Psychology)
- PSYB13F/PSYB13F Abnormal Psychology
- PSYB14F Psychometric Methods
- PSYB14F Learning
- PSYB15F Behaviour Modification: Origins and Application
- PSYB16F Sensation and Perception
- PSYB17F Perceiving and Knowing
- PSYB18F Human Information Processing
- PSYB33F Microcomputers in Experimental Psychology
- PSYB57S Human Learning and Memory
- PSYB58F Psychological Foundations of Behaviour
- PSYB40S Current Topics in Animal Learning
- PSYB41F Research in Operant Conditioning
- PSYB52S Current Topics in Human Information Processing
- PSYC56F (Computers in Psychology)
- PSYB13Y Physics for the Life Sciences II
- PSYB19S Genetics
- PSYB28Y Invertebrate Zoology
- PSYB28Y Animal Population and Evolution
- PSYB29S Biology of Microorganisms
Philosophy

Discipline Representative: G. Nagel
Philosophy consists of a critical analysis of the ideas and concepts fundamental to such major areas of human concern as science, society, religion, morality and art. Its aim is to scrutinize the basic notions in these areas, to clarify the principles on which they are founded, to evaluate such beliefs for their soundness, and to explore the implications for a comprehensive understanding of the world in which we live. Philosophy originates in the desire to know, and its value consists of the systematic development of a questioning attitude and critical awareness.

Course offerings in Philosophy form a two-year cycle; those offered in one academic year will normally be available in the following year while PHLA01, PHLB01, PHLB20, JMPB50 and PHLB60 are offered every year. It should be noted that in almost all subject areas Fall/Spring sequences are offered which when combined provide the equivalent of a full course at the B-level. These sequences are usually scheduled in the same time slot. The B-series of courses is arranged in decade units according to areas within Philosophy, not in order of difficulty.

Further information about Philosophy may be obtained from the Discipline Representative.

Specialist Programme in Philosophy
Supervisor: G. Nagel (284-3182)
Students must complete at least twelve full-course equivalents including:

1. PHLA01Y Fundamental Questions of Philosophy
2. JMPB50F Symbolic Logic
3. PHLB01F Morality and Values
4. Two half-courses from PHLB40F to PHLB49S
5. Two full-course equivalents in C-level Philosophy courses

Major Programme in Philosophy
Supervisor: G. Nagel (284-3182)
Students must complete at least six full-course equivalents in Philosophy including:

1. PHLA01Y Fundamental Questions of Philosophy
2. Two of the following half-courses:
   - PHLB01F Morality and Values
   - PHLB20F/S Belief, Knowledge and Truth

JMPB50F Symbolic Logic
PHLB01F/S Existence and Reality
Two half-courses from PHLB40F to PHLB49S
Two additional half-courses in Philosophy

Note: In certain cases, students combining the 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.

Cognate Courses
Philosophy students should seriously consider the advantages of studying a foreign language, especially French, German, Greek or Latin. Two full-course equivalents in a foreign language will give students access to much philosophical thought in its original language and to many secondary sources not available in English.

There is a variety of courses in Classics, English, Fine Art, History and Humanity which will help to supplement the Programmes of many students. In particular, students should consider the following courses: HUMA01Y, Prologue; RSA01Y, European World; ASTA03Y, Introduction to Astronomy; NSCA01Y, Introduction to Natural Science: The Physical Sciences; NSCA02Y, Introduction to Natural Science: The Biological Sciences; as courses which provide important intellectual and historical background of the study of Philosophy.

PHLA01Y: L03 Fundamental Questions of Philosophy
A discussion of some of the fundamental questions of philosophy. What is good reasoning? What is morality and can it be justified? It is reasonable to adhere to a religion? What is knowledge? Are social practices justifiable? Is materialism true? Are humans free?

Fall Term Texts: Plato, The Last Days of Socrates and Gorgias; Nietzsche, Beyond Good and Evil; Spring Term Texts to be announced.

Session: Winter Day
W. Graham/W. Newton-Smith

PHLA01Y: L30 Fundamental Questions of Philosophy
A discussion of some of the fundamental questions of philosophy. What is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justifiable? Is materialism true? Are humans free?

An introduction to philosophy consisting of topics from its major divisions: metaphysics, theory of knowledge, philosophy of religion, ethics, and logic. Reading material is evenly divided between works of great philosophers of the past, and of contemporary philosophers.

Session: Winter Evening
J.H. Sobel

PHLB01F Ethics
A study of philosophical problems and postures in ethics, such as the relativity of values, the justification of morality, moral scepticism, ethical egoism, utilitarianism, deontology.

This course is an introduction to the problems and concepts of ethical theory.

Session: Winter Day
P. Gooch

PHLB02F Philosophy of Literature
An examination of philosophical theories and claims about literary works.

Session: Winter Day
PHLB05F Social Issues
An examination of the moral questions surrounding some of the following: abortion, capital punishment, human sexual relations (homosexuality, adultery, etc.), eugenics, acol-ogy, civil disobedience, policies towards the Third World and towards the poor.
In 1983 the course will involve an examination of human sexual relations, abortion, world hunger, war, discrimination and capital punishment.
Two hours of lecture a week.
Session: Winter Day
P. Thompson

PHLB11F Philosophy of Law
A study of some fundamental legal concepts.
The course has two parts: The first examines the notion of justice: is it an "affirmative action" just? can a substantial concept of justice be derived from the notion of rational choice?
Session: Winter Day and Summer Evening
P. Thompson, A. Gomby

PHLB12F Marx and Marxism
The philosophies of Marx, Engels, Lenin and others.
Prerequisite: One course or half-course in Philosophy, Sociology, Political Science or Economics - PHLB10 is recommended but not required.
Session: Winter Day
W. Graham

PHLB16F Philosophy of History
The philosophy of history studies general theories about the nature of the human past and basic problems in the methods of historical research and writing.
Prerequisite: Natural science.
Session: Winter Day
W. Graham

PHLB17S Anarchism
A study of major anarchists and problems of libertarian thought and practice, the impact of anarchism on social, cultural and political institutions, classical and contemporary anarchists such as Proudhon, Bakunin, Kropotkin and Toitsky.
Session: Winter Day
W. Graham

PHLB20S Belief, Knowledge and Truth
An examination of such questions as certainty, the problem of scepticism, the scope and limits of human knowledge, the subjectivity of perception, rationality, and theories of truth.
Session: Winter Day
W. Newton-Smith

PHLB24F Aristotle I
A study of central themes in the philosophy of Aristotle.
A discussion of Aristotle's thought on psychology, nature, thought and reasoning, and being: the development of Aristotle's conception of philosophy in relation to Plato and the Pre-Socratics. The Aristotelian revolution in philosophy which sought to establish a radically new basis for the relation between human beings and the natural and social worlds, provides a key to the significance of Aristotle for the present age.
Session: Winter Day
W. Graham

PHLB24S Aristotle II
A continuation of PHLB24F.
A discussion of Aristotle's Ethics and Politics; Aristotle as the founder of a practical philosophy in relation to Plato; the controversial significance of Aristotle's Ethics.
Session: Winter Day
W. Graham

PHLB46F Philosophy of the Early Modern Age
Philosophy in the seventeenth century.
The political, religious and scientific developments in the sixteenth century upset the medieval reconciliation of faith and reason. In this climate of uncertainty, the philosophers of the seventeenth century tried to find a new reconciliation. The course will be a survey of their efforts.
Session: Winter Evening and Summer Evening
G. Nagel and A. Gomby

PHLB47S Philosophy of the Early Modern Age
Philosophy in the eighteenth century.
The rapid political and economic changes of the early modern period; the abandonment of the idea of the natural order; the advancement of the Arts; the progress of science; and the progress of science all converge to force eighteenth-century thinkers to abandon the seventeenth-century search for a stable rational order. In its place they find a new naturalism: the assessment of constantly changing ideas, and the accommodation of man to a world of change. This course will be a survey of the main thinkers of the period.
Session: Winter Evening
G. Nagel

PHLB50F Symbolic Logic
An introduction to formal techniques of reasoning, deductive and inductive, the course was sentential logic, and quantification theory or predicate logic.
An introduction to formal techniques of reasoning, deductive and inductive, the course was sentential logic, and quantification theory.
The emphasis is on appreciation of and practice in techniques, for example, for formal analysis of English statements and arguments, and for construction of clear and rigorous proofs. Topics of more theoretical interest are reviewed in lectures.
Session: Winter Day, Winter Evening
D. Solbel

PHLB60S Existence and Reality
Consideration of problems in metaphysics. Metaphysics is the most general level of philosophy. Instead of limiting its concern to specific problems such as those of conduct, which are studied in ethics, or those of knowledge, which are studied in epistemology, metaphysics considers a wide range of issues in an effort to find an understanding of reality broad enough to encompass all that we have to fit it. Text: Richard Taylor, Metaphysics. Lectures and discussion.
Session: Winter Day
G. Nagel

PHLB61F Philosophy of Religion
An examination of such topics as the nature and existence of God, immortality, God and morality, language and symbolism.
Session: Winter Day
Lewis White Bock

PHLB70S Philosophy of Science
A study of philosophical questions raised by the natural sciences.
In 1985 the course will involve an examination of the logical structure of explanation, law and theory, and the role of concepts in one's understanding of the world. Two hours of lecture a week.
Exclusion: PHLB71
Prerequisite: One course or half-course in Philosophy or in the Division of Science.
Session: Winter Day
P. Thompson

PHLB81F Theories of Mind
An examination of philosophical presuppositions of psychological theories such as those of Freud and Jung, Behaviourism and Existential Psychology. Problems such as the relation of mind and body, conscious and unconscious, the meaning of materialistic concepts and the analysis of dreaming will be studied.
In 1983-84 the following topics will be studied: pleasure and pain, desire, emotion, and love.
Prerequisite: One B-level course or half-course in Philosophy or Psychology.
Session: Winter Day
D. Savan

PHLC02S Contemporary Ethical Theories
The nature of morality. Questions suggestive of its content are: what is right, if any, have facts established empirically upon values and duties? are values and duties of a kind of order which are apart? are values and duties of the kind of objects of value, or their value is itself a reality or a kind of reality which is immediately apprehended? what determines the rightness or wrongness of actions, and are there any such determinates? Texts to be studied: The Ethics of Nonnormative Ethical Theories.
Session: Winter Day
D. Solbel

PHLC05S Biomedical Ethics
An examination of the social and ethical aspects of the biomedical sciences and medicine.
In 1983 the following issues will be discussed: the definition of health and disease, euthanasia, genetic technologies, behaviour control and psychosurgery, health care delivery, and epidemiological models.
Exclusion: PHLB87
Prerequisites: PHLB50S or PHLB61S
Session: Summer Evening
P. Thompson
PHLC49Y Canadian Social Issues: Historical and Philosophical Perspectives
An advanced level seminar that will examine social issues in Canadian society with an emphasis on the historical development of legal and ethical thinking. Limited enrolment: 15.
In 1983-84 we will examine: contraception and abortion; the status of native Canadians; women in Canadian society; race relations; crime and punishment; religious freedoms. We will examine the historical development of legal and ethical thinking on these issues including an examination of the various positions taken by different groups and the role they have played in influencing opinion and law in Canada.
Prerequisite: HISB10 or PHLB01 or PHLB05
Session: Winter Day
J. S. Mori and P. Thompson

JMPC51S Symbolic Logic II
A continuation of JMPC50F.
The natural deduction system studied in Symbolic Logic I is extended to cover identity and definite descriptions. Special attention is paid to the restriction of the identity calculus to "extensional" terms and formulas. Alternative treatments of definite descriptions, one that follows Frege, the other that follows Russell, are developed and compared. The text is D. Kalish, R. Montague and G. Mar. Logic: Techniques of Formal Reasoning.
Prerequisite: JMPC50F
Session: Winter Evening
J. H. Sobel

PHLC54S Metalogic
An introduction to the metatheory of standard logic.
This course will take up formal interpretations of sentential and predicate logic, proofs of completeness and correctness, theories concerning various limitations of logical systems, and possible philosophic implications of these things.
Prerequisite: JMPC50F
Session: Winter Day
W. Newman-Smith

PHLC51S Studies in Philosophy of Religion
An advanced philosophical consideration of problems raised by religion, religious texts and religious thought.
Prerequisite: PHLB61
Session: Winter Day
P. W. Goehr

PHLC57F/S-C54F/S Seminar in Philosophy
A study in depth of a philosopher or philosophers or of a philosophical problem. Limited enrolment: 15
PHLC59F Seminar in Philosophy: Space and Time
A discussion of the many ways in which space and time are so important and so mysterious.
We will consider whether there really are differences between the past (which seems unalterable) and the future (which seems open to change); why we have two separate systems for locating things in time; what the relationship is between space and time; and other topics.
Text: Richard Gale, The Philosophy of Time.
Prerequisite: Two B-level half-courses in Philosophy
Session: Winter Day
G. Nagel

PHLC57F/S Seminar in Philosophy: The Pre-Socratics
A study of the earliest philosophers such as Anaximander, Pythagoras, Heracleitus, Parmenides, Zeno, Empedocles, etc.
The thought of the Pre-Socratics has intrigued and puzzled philosophers since ancient times. Plato, Aristotle, Hegel, Nietzsche and Heidegger are among those who felt compelled to comment on them. Their writings remain as thought provoking and important as ever.
Prerequisite: Two B-level half-courses in Philosophy
Session: Winter Day
W. Graham

PHLC58S Seminar in Philosophy: Ways of Interpreting the World (1983-84)
An examination of some strikingly different theories concerning the interpretation of nature, history, art, and human experience.
A selection will be made from interpretations proposed by Nelson Goodman, Michel Foucault, H. G. Gadamer, Jacques Derrida, and C. S. Peirce. It is proposed to show that, without isolating their major differences, there is an overlapping agreement on basic principles and problems.
Prerequisite: Two B-level half-courses in Philosophy
Session: Winter Day
D. Savan

PHLC59F/S Seminar in Philosophy: Philosophy of Science
Prerequisite: Two B-level half-courses in Philosophy, permission of instructor

PHLC61S Philosophy and Art
Society, The State and The Citizen
Philosophy of Social Science
Prerequisite: One course in Philosophy or in the Division of Social Sciences.

PHLC61S Philosophy of Education

PHLC61S Existentialism

PHLC61S Plato and his Predecessors I

PHLC61S Plato and his Predecessors II

PHLC61S Philosophers of the Middle Ages I

PHLC61S Philosophers of the Middle Ages II

PHLC61S Philosophy in the Dark Ages I

PHLC61S Philosophy in the Dark Ages II

PHLC61S The Art of Thinking

PHLC61S Philosophy of Biology

PHLC61S Exclusion: PHLB70

PHLC61S Philosophy of Language

PHLC61S Topics in the Philosophy of Law

PHLC61S Modal Logic and Probability

PHLC61S Games and Decision

PHLC61S Advanced Topics in Philosophy of Biology

PHLC61S Seminar in Philosophy: Lying and Deceit

PHLC61S Seminar in Philosophy: Spinoza
Prerequisite: Two B-level half-courses in Philosophy, permission of instructor
Phyiscs

Discipline Representative: P.J. O’Donnell

Physics is the study of the basic laws which describe how material objects move, and influence each other. The effects 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 neighboring atom, or of an atomic nucleus on an electron, may be accurately described in terms of the general laws of physics. Although Newton’s laws of motion adequately describe some of these situations, in most cases it is necessary to appeal to the more recently discovered refinements of these laws - quantum mechanics and the theory of relativity, together with the understanding of electric and magnetic effects so beautifully synthesized in Maxwell’s theory of electromagnetism. From these basic principles many of the properties of gases, liquids, solids, plasmas, and nuclear matter may be understood in terms of the interactions among the individual units of which these forms of matter are composed.

Physics allows us to describe the properties of light, sound and heat up to the point where these enter our senses and of x-ray, radio, cosmic and other radiations of which we are not directly aware. The remarkable properties of some materials under extreme conditions of temperature and pressure, and of other materials when 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 development of physical phenomena that they may be used to predict the behavior and even to predict the results of many carefully controlled experiments. The study of physics therefore requires some study both of mathematics and of the techniques that are used in the performance of accurate experiments.

Students intending to study physics in depth should select their courses in accordance with the requirements of either the Specialist or Major Programme in Physics. Students whose interests lie in the Life Sciences may choose the pair of courses PHYA39 and PHYB13 which offer a survey of physics with many applications in the Life Sciences and medical physics. PHYB03 along with the laboratory course PHYB08H offers an introduction to electronics and is also available to students outside the Physics Programmes.

The listed pre-and corequisites imply others not explicitly listed. Details are available from the Supervisor and the Registrar’s Office.

Students interested in physics should also refer to:

NSCA01Y Introduction to Natural Science: Physical Science
JPCAC10Y Relativity and Cosmology
JPMC42S Advanced Classical Mechanics
JPCO01Y Advanced Physics Laboratory

Specialist Programme in Physics
Supervisor: A.E. Jacobs (284-3227)

Fourth year:

Three full-course equivalents from:

PHYO05H Advanced Classical Mechanics
PHMC42S Advanced Classical Mechanics
MATC11F Differential Equations I
MATC01F Complex Analysis I

Fourth year:

Three full-course equivalents from:

PHYA03Y Physics and Archeology
PHYC11H Geophysics
PHYC15H Introduction to Condensed Matter Physics
PHYC31H Particle Physics
PHYC35H Quantum Mechanics
PHYC37H Electrodynamics
PHYC39H Mechanics
PHYC44H Elasticity and Fluid Mechanics
PHYC45H The Physics of Diagnostic and Therapeutic Radiology

MATB42S Techniques of the Calculus of Several Variables II
or
(MATB50F, BSS5 Analysis I, II)

PHYB04F Waves
PHYB17S Introduction to Quantum Physics I
PHYB08H Intermediate Physics Laboratory

Third year:

PHYC01F Quantum Physics II
MATC11F Differential Equations I
PHYC03Y Quantum Mechanics
or
PHYC04F Quantum Fields
or
PHYC04S Physics of Solid State Devices

MATB42S Techniques of the Calculus of Several Variables II

PHYA03Y Physics for the Physical and Life Sciences
A survey of the principles of physics with applications to both the Physical and Life Sciences. Topics include motion of individual particles and of complex bodies on a scale from molecules to animals, vibrations and waves, sound, light, heat and thermodynamics, and kinetic theory. The subjects of relativity, nuclear physics, and quantum mechanics are also introduced.

Two lectures and one tutorial per week, and a three-hour laboratory every second week.
Exclusion: (PHYA02)
Corequisites: (MATA22) or MATA26 or MATA27 or MATA28
Session: Winter Day

PHYB01S Electricity and Magnetism
Coulomb’s law, electric fields, Gauss’ law, electric potential, capacitance, dielectrics, magnetic forces and fields, inductance, magnetization
Exclusion: (PHYB13)
Prerequisites: PHYA03 (or PHYA02) and MATB41
Other recommended courses: PHYB03, PHYB08, MATB42 or MATB55
Session: Winter Day

PHYB03F Introductory Electronics
Linear circuit theory (DC, AC and transients), simple filters, Non-linear elements, including diodes and transistors; rectifier, amplifier, and pulse circuits. Logic gates, Boolean algebra, and digital electronics
Prerequisites: PHYA03 (or PHYA02)
Session: Winter Day

PHYB04F Waves
Topics discussed include wave equations, super-position of waves, emission and absorption of waves, interference and diffraction. Applications are made to

MATA26Y Calculus

First year:

PHYB03F Introductory Electronics

Second year:

PHYC01F Quantum Physics II
PHYC03Y Electricity and Magnetism II

or

PHYC03F Electromagnetic Fields

MATB41F Techniques of the Calculus of Several Variables I

First year:

PHYA03Y Physics for the Physical and Life Sciences

Second year:

PHYA02Y Principles of Physics

MATB42S Techniques of the Calculus of Several Variables II

First year:

PHYA03Y Physics for the Physical and Life Sciences

Second year:

PHYA02Y Principles of Physics

MATB42S Techniques of the Calculus of Several Variables II

First year:

PHYA03Y Physics for the Physical and Life Sciences

Second year:

PHYA02Y Principles of Physics

MATB42S Techniques of the Calculus of Several Variables II
sound waves, radio waves, light waves, surface water waves and waves on a string.
Prerequisite: PHYA03 (or PHYA02); MAT26 or MAT35
Session: Winter Day

PHYB08 Intermediate Physics Laboratory
Experiments are provided that deal with basic electricity and magnetism, electronics, solid state physics, and atomic and nuclear physics (illustrating material covered in lecture courses PHYB01, PHYB03 and PHYB13). Optional concentration in electronic circuits in the second term is available. Limited enrolment: 20.
A six-hour laboratory period each week. A six-hour laboratory period may extend over more than one period. Students are expected to plan their experiments thoroughly beforehand, discussing their approach with one of the instructors or demonstrators. Observations including numerical data must be recorded carefully and thoroughly. The Intermediate Physics Laboratory Manual, available in the laboratory, contains references to other sources, a number of which are available for consultation in the laboratory.
Prerequisite: PHYA03 (or PHYA02)
Corequisite: PHYB03
Session: Winter Day

PHYB17S Quantum Physics I
Prerequisite: PHYB04, MAT41 or MATB50
Session: Winter Day

PHYB18F Special Relativity
Prerequisite: PHYA03 (or PHYA02)
Session: Winter Day

PHYB19S Thermal Physics
Introduction to statistical methods of dealing with large systems in equilibrium, canonical and grand canonical ensembles, meaning of temperature and chemical potential, partition functions and free energies for simple systems; properties of ideal Fermi, Bose and Boltzmann gases; binary mixtures, mean-field theory of cooperative phenomena.
Exclusion: PHYC06
Corequisite: PHYB17S
Session: Winter Day

PHYC01F Quantum Physics II
Prerequisites: PHYB01; PHYB17 (or MAT4B1 and MATB42) or (or MATB50 and MATB55)
Session: Winter Day

PHYC03F Electromagnetic Fields
Maxwell’s equations, propagation of electromagnetic waves, reflection and refraction at interfaces, waveguides, radiation.
Prerequisites: PHYB01; PHYB04, MAT41 or MATB50
Corequisites: MATC51
Session: Winter Day

PHYC04F Physics of Solid State Devices
An introduction to the basic principles of solid-state physics which underlie devices of modern technology. The quantum physics needed to understand the electronic properties of semiconductors and metals is discussed with emphasis on devices, characteristics and operation.
Topics include semiconductor diodes, P-N junctions, field-effect transistors, and other elements of large-scale integrated circuits. Superconducting magnets, Josephson junctions, liquid crystal displays.
Prerequisites: PHYB03, PHYB19, PHYG01
Session: Winter Day

PHYC05H Advanced Physics Laboratory
Selection is made of a number of advanced and specialized experiments illustrating fundamental principles and techniques in physics. Limited enrolment: 20.
This course is designed to involve students in one or 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.
Prerequisite: PHYB05 and permission of instructor.
Prerequisite: PHYC01
Corequisite: PHYC01
Session: Winter Day

PNC2 Advanced Classical Mechanics
Prerequisites: PHYA03 (A02); MATC51
Session: Winter Day

Courses Not Offered in 1983-84

AC10Y Relativity and Cosmology
Prerequisite: PHYB01, JPMC42, PHYB18 would be desirable.

Specialist Programme in Political Science
Supervisor: V. Falkenheim
Students who intend to pursue a Specialist Programme in Political Science should, as early as possible, draw up a preliminary programme of
study in consultation with a member of the Political Science Staff. An orientation meeting will be scheduled in the Fall to help familiarize students with the aims of the Political Science Program as well as to introduce faculty responsible for teaching, and career and graduate study guidance. The recommended sequence of courses begins with an introductory course at the A level. Students who wish to pursue advanced courses in Canadian Government should also include POLB50 early in their Program.

Students must complete ten full-course equivalents in Political Science approved by the Supervisor and including the following:

1. POLA01 Introduction to Political Studies
2. Two courses in political theory from:
   - POLB70-77
   - POLC70-77
3. POLB50 Canadian Government and Politics
4. One course from any of the three of
   - B Political Behaviour: POLB65-69, POLC65-69
   - C International Relations: POLB80-884, POLC80-697
5. Comparative Politics, Industrial Countries: POLB85-90, POLC85-90
6. Comparative Politics, Developing Countries: POLB91-99, POLC91-97
7. Specialist Programme in Economics and Political Science
   (see under Economics)

POLA01Y Introduction to Political Studies
An introduction to some of the major vexing problems of political life such as participation, equality, liberty, distribution of power, and the influence of vested interests. Students will examine these problems as they are treated by major political theorists and as they occur in the institutional structures of Canada and other Western democracies.

Session: Winter Day
T. R. Blair

POLB50Y Canadian Government and Politics
A study of Canadian political institutions and processes.

Specific topics include: the constitution, federalism, fiscal relations, political regionalism, class and politics, Quebec, political parties, interest groups, representation, Parliament, Cabinet, legislative-executive relations, the public service, policy-making. Two lectures a week. Tutorial once every two weeks. For preliminary reading students are recommended to read T. A. Hoekin, Government in Canada, or P. O. B. Plaistow, Political Parties, 1976-1979. Session: Winter Day, Summer Evening
R. S. Blair

POLB51F Government and Politics in Ontario
Political structures and processes in Ontario: cabinet government, interaction of cabinet legislature, and public service; political parties and the party system; provincial-municipal relations.

Exclusion: POLB37
Prerequisite: POLB50 (or POLB51)
Session: Winter Day
R. S. Blair

POLB52F Canadian Constitutional Law
An examination of the judicial role in interpreting the division of legislative powers contained in the B.N.A. Act. The text of relevant decisions will be analysed in detail. The remainder of the course will deal with the subject of constitutional change, civil liberties, and administrative powers.

The main text in the course is Peter H. Russell (ed.), Leading Constitutional Decisions (rev. ed.). Exclusion: POLB32
Prerequisite: POLB50 (or POLB51)
Session: Winter Day
R. S. Blair

POLB53Y Public Policies in Canada
A study of the growth of public policies in Canada and their effect on social and economic progress, social equality, and human development, of the relationship between changing public policies and Canadian political development, and of the contributions made by instruments of government toward the achievement of basic political values.

Exclusion: (POLB35)
Session: Winter Day
J. Manzera

POLB54S Intergovernmental Relations
An examination of some of the problems of intergovernmental relations which arise in a federal state and of the governmental machinery which has been developed to deal with these issues.

Exclusion: (POLB19)
Prerequisite: POLA01
Session: Winter Day
R. S. Blair

POLB60Y Public Administration
An examination of the role of the bureaucracy in the Canadian and other political systems, focusing on the organization, staffing and management of the public service. Special emphasis will be placed on the powers of the bureaucracy and means of controlling it.

Exclusion: (POLB50)
Session: Winter Day
J. Galimberti

POLB65Y Political Behaviour
An introduction to the analysis of political behaviour. This course will consider the current state of political science and its theoretical and empirical status. Emphasis will be placed on the social, cultural, and personal foundations of political behaviour. Special consideration will be given to the problem of political behaviour: Lectures and discussions.

Exclusion: (POLB50)
Session: Winter Day
R. S. Blair

POLB70Y Political Thought from Plato to Locke

Students will be 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 Augustine and St. Thomas Aquinas will also be studied.

Two hours of lectures and one tutorial hour per week.
Exclusion: (POLB10)
Session: Winter Day
E. Andrew

POLB71Y Political Thought of the Eighteenth and Nineteenth Centuries
A study of the major political philosophers of eighteenth and nineteenth centuries.

Students will be expected to study selected writings of Rousseau, Montesquieu, Burke, Tocqueville, J. S. Mill and Marx.

Two hours of lectures.
Exclusion: (POLB03)
Session: Summer Day, Winter Day
J. Colman

POLB80Y International Relations
A study of the nature of the international system: the factors that motivate foreign policies; and the institutions for the conduct of international relations. The purpose of the course is to help students develop a framework with which to analyse politics at the international level.

Exclusion: POLB10
Session: Winter Day
A. Rubinton

POLB81F Canadian Foreign Policy
An examination of the most important elements within Canada’s foreign policy since 1945 and a consideration of the issues and the influence which have determined that policy.

Exclusion: (POLB40)
Prerequisite: POLB50 (or POLB81) or (POLB10)
Session: Winter Day
K. C. Scott

POLB85V Comparative Politics of Industrial Societies
A comparative analysis of politics in advanced industrial societies examining 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.
POL865Y Soviet Government and Politics
The development of Soviet political and social institutions since 1917, with emphasis upon the process of modernization and its effects.
The course examines the transformation and consolidation of the Soviet political order and the urgent problems confronting Soviet society today, both internally and in its relations with other states.
Exclusion: POLB034
Session: Winter Day

POL887Y U.S. Government and Politics
A general examination of national institutions and political processes in the United States with special emphasis on the role of presidential leadership in policy making.
Specific topics include: the "constitution," the social basis of political conflict, political participation, the links between state and society, and the Washington Community and patterns of public policy.
Exclusion: POLB26
Session: Winter Day
A. Rubinfeld

POL889Y Politics and Society in Contemporary Japan
An analysis of politics and government in contemporary Japan. Special attention will be given to social and cultural explanations of political behaviour. Contributions made by government policy toward achieving miraculous economic growth will be considered.
Exclusion: POLB033
Session: Winter Evening
M. Donnelly

POLB09Y Contemporary British Politics
The British political system in the context of the very substantial political, economic and social changes which have taken place in this society since World War II. During the first term, Britain's constitution and major political institutions are examined, as well as her varied and lasting contribution to democratic government and public administration. Recent developments in the party system and the trade movement are also discussed. The second term will take up a number of major issues in public policy as well as relations with the E.E.C., economic problems, and conflict in Northern Ireland.
Session: Winter Day

POLC06Y Comparative Communism
An analysis of society and politics in a variety of countries currently governed by Marxist-Leninist parties.
Exclusion: POLC06
Prerequisite: One B-level course in Political Science
Session: Winter Day
S. J. Colman

POLB08Y Political Change in Developing Areas
An examination of the political and governmental systems in developing nations, particularly those in Latin America and Africa. The selection and evaluation of various approaches to political systems, the role of society in the process of political change, and the impact of political change on society will be examined.
Exclusion: POLB34
Session: Winter Day
P. Pettersen

POLB07Y Politics and Society in Independent Africa
Although the focus of this course is independent Africa, it is about the general problems of under-development in the third world and the possibilities for progressive change. The three major questions with which the course grapples are the following: What extent is the fate of poor African countries determined by such external factors as the colonial legacy and what is often referred to as "neo-colonialism" or "neo-imperialism"? To what extent are progressive developmental policies blocked by the power of new vested interest groups created by rapid political and economic change in African countries? What are some of the major political institutions and development strategies through which governments seek to direct change, and how effective are they, and how are they constrained in terms of their freedom of action?
Prerequisite is none, but a course in introductory politics or science would be helpful.
Session: Winter Day

POLB09Y The Chinese Political System
An analysis of Chinese political institutions, behaviour and thought, with primary emphasis on the contemporary political system since 1949.
Exclusion: POLB17
Session: Winter Evening
V. Falkenheim

POLC01Y See course not offered.

POLC05Y Topics in Canadian Government
An intensive study of selected important topics in the field of Canadian government and politics. This year the topics to be explored will include: the politics and management of Canadian economic policy; secrecy; delegated legislation and its consequences; consequences of structural change in the machinery of central government.
The course will be taught in a weekly two-hour seminar and the students will be expected to undertake regular preparatory reading and to participate actively in class discussion.
Exclusion: POLB37
Prerequisite: POLB05 or POLB01
Session: Winter Day
R. A. MacLean

POLC06Y Administrative Politics
Analysis of politics in the administrative processes of democratic states - the conflicting interests, ideas and values of governmental agencies; differentials in their resources; and the effects of variations in political institutions and practices - in Canada and the United States but with some reference to European experience.
Prerequisite: POLB05 or POLB03 or POLB06 (or POLB01 or POLB05 or POLB33)
Session: Winter Day
R. A. MacLean

POLC08Y Policy Development
Analysis of the process of formulating, implementing and evaluating public policy in a modern democratic state with cases based primarily on contemporary policies for economic stabilization, public safety and social policy, criminal justice in Canada.
Prerequisite: POLB05 or POLB03 or POLB06 (or POLB01, POLB05 or POLB33)
Session: Winter Day
R. A. MacLean

POLC09Y Organized Interests and the State
An investigation of the role of interest groups in the political economy of industrial countries, particular reference to the origin and growth of organized interests, their internal patterns of organization, the tactics of political influence and the effect of group activity on government.
Prerequisite: POLA01 or POLB05 (now B00) or POLB83
Session: Winter Day
M. Donnelly

POLC10Y Selected Topics in Political Philosophy
A detailed examination of selected themes in political philosophy and the works of a particular philosopher. The topics to be studied will be announced annually in the Spring.
Prerequisite: POLB70, POLB71 or Permission of Instructor
Session: Winter Day
S. J. Colman

POLC11Y Supervised Reading
Advanced reading program in political philosophy. The 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: POLC05
Prerequisite: One B-level course in Political Science, Permission of Instructor
Session: Winter Day
Staff

Courses Not Offered in 1983-84
POLB65Y Psychology and Politics
Exclusion: POLB40

POLB64Y American Foreign Policy
Exclusion: POLB05, POLB06 (POLB10) or POLB87 (POLB26)
Psychology

Associate Chairman: Psychology is that branch of scholarship which seeks to understand behaviour and experience. Why humans and infrahumans act as they do is a puzzle which has always challenged mankind. Philosophers, artists, novelists, theologians and others have sought the answer through reason and intuition. But the methods of scientific enquiry can also be applied to an understanding of behaviour.

The areas of interest which psychology encompasses include: how organisms perceive their environments; how they learn and adapt; how they change over their lifetimes; how they choose among alternate courses of action; how they respond to stress and conflict; how the presence of other organisms in social settings influences their behaviour; how their behaviour relates to physiological functions; and how individuals differ from one another. The course offerings in Psychology consider how psychologists pursue enquiries into these areas and what knowledge they have gained.

The Specialist Programme in Psychology includes courses from the main subfields within the discipline. It has been designed both for students wishing to pursue graduate work in psychology and for those who have a general interest in this field. Students considering graduate study in Psychology should include the thesis course (PSY298V) in their Programme. The Major Programme is similarly designed to expose students to the main areas within Psychology and is recommended for those with a less specialized interest in the field.

Students particularly interested in the relation of brain to behaviour should consider the Major and Specialist Programmes in the Neurosciences (NRS) described in this calendar.

Specialist Programme in Psychology

Programme: G.C. Cupchik 284-3184
The programme requires completion of six full-course equivalents in Psychology as follows:

1. PSYA01Y Introduction to Psychology
2. PSYB07/F Introduction to Psychological Research and at least one full-course equivalent from among PSY11/F, PSYB34/F, PSYB40/F, PSYB1/F, PSYB3/F, PSYB2Y.

6. At least one additional half-course at the B-level selected from the 30-series. (This series represents cognitive psychology: human learning, memory, sensation and perception.)
7. At least one full-course equivalent at the C-level. (This full-course equivalent cannot be comprised entirely of courses selected from the 90-series. Be sure to read the section below concerning balloting for C-level courses.)
8. One and one-half additional full-course equivalents at the B- or C-level in any area of Psychology.

In March, students will be required to ballot for all C-level courses they wish to take in the following year. Permission to register in courses for which the student successfully balloted will be returned in June with registration materials. No students may register in any C-level course for which permission has not been given. For the ballot confirmation to be valid, students must pre-register.

PSYADY Introduction to Psychology

The basic principles and methods of contemporary psychology, emphasizing their contribution to an understanding of how organisms, both human and infrahuman, perceive their environment, how their behaviour is modified by experience, and how their activities are integrated, sustained, and directed.

The physiological basis of behaviour, particularly the functioning of the nervous system, the importance of past experience in behaviour: perceiving, thinking, and reasoning; intelligence; language; motivation and emotion; social behaviour; personality, and abnormalities of behaviour and experience. Two three-hour lectures per week, including discussion, demonstrations, and films.

Session: Summer Evening
G.B. Biederman and F. Kajzer

PSYADY Introduction to Psychology

The basic principles and methods of contemporary psychology, emphasizing their contribution to an understanding of how organisms, both human and infrahuman, perceive their environment, how their behaviour is modified by experience, and how their activities are integrated, sustained, and directed.

The physiological basis of behaviour, particularly the functioning of the nervous system; learning and the importance of past experience.
in behaviour, perceiving, thinking, and reasoning; intelligence, language, motivation and emotion, social behaviour, personality, and abnormality of behaviour and experience.

Three lecture hours per week.

Session: Winter Day, Winter Evening
The Faculty

PSYB01F Introduction to Psychological Research
The intent is to present the principles of the scientific method as they apply to experimental psychology. Using examples from both animal and human experiments, the development of research projects in psychology will be described. The nature of hypothesis testing through the design of experiments provides the nucleus of the course. Out of this grows discussion of issues important in planning and conducting research: generating research problems, experimental control, sampling of subjects, scaling and measurement, interpretation and evaluation of results, theory construction, and preparation of the research report. The social psychology of the experiment and ethical issues in research will also be considered.

Topics will include classical and operant conditioning, motivation, learning, perception, and memory. Research methods will be introduced in lectures and illustrated in laboratory exercises. This course is required by both the Major and the Specialist Programmes, and provides the basic skills necessary to take the other laboratory courses in psychology.

Prerequisite: PSYA1
Exclusions: (PSYB09), (PSYB52)
Session: Winter Day (F), Winter Evening (F)
G. Biederman, M. Smith

PSYB07F/S Data Analysis in Psychology
Data reduction techniques: frequency distributions, measures of central tendency and variability, linear transformations, correlation and regression; and hypothesis testing procedures based on the binomial, chi-square, normal, and t distributions.

Psychologists, like other scientists, arrive at general principles on the basis of limited evidence. The behaviour of the human species is explained by observing the behaviour of individual persons. How is the psychiatrist able to make the leap from the specific data of his experimental generalization to the generalization he may wish to affirm? The course examines the role of statistical decision-making procedures in drawing reasonable inferences from research findings. It details the mechanics of a variety of commonly used data analysis procedures and explores their underlying logic. A working knowledge of elementary algebra (to the solution of simple linear equations in one unknown) is assumed. (Students concerned about the adequacy of their background in mathematics should consult H. M. Walker's Mathematics Essential for Elementary Statistics, available in the College Library, for a detailed survey of the skills required.) Four hours of lecture and one hour of tutorial per week.

Exclusion: ANB43, EC0B11, GGRB02, STAT57 (MATB57), SOCB06
Session: Winter Day (F), Winter Evening (S)
B. Forma

PSYB08S Experimental Design in Psychology
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 analysis of covariance.

The course extends the range of techniques examined in PSYB07. Procedures are considered which permit the analysis and interpretation of data from complex experiments involving the simultaneous manipulation of several independent variables. The course is highly recommended for all students contemplating supervised individual research in Psychology. Three hours of lecture and one hour of tutorial per week.

Exclusion: (MATC52)
Prerequisite: PSYB07 or STAT57 (MATB57)
Session: Winter Day
B. Forma

PSYB10F Introduction to Social Psychology
Social influence (compliance and obedience), prejudice, sexism, attitude change, group behaviour (crowding, crowd behaviour, pains), aggression, cooperation and competition, non-verbal communication, pen and perception, attraction and emotion.

Social Psychology focuses on the problem of how human behaviour is influenced by others. The course is designed to demonstrate some of the phenomena of social behaviour and to present theories and research evidence relating to these phenomena.

Prerequisite: PSYB01
Session: Winter Evening (S)

PSYB11F Social Psychology Laboratory
An introduction to conceptual and practical issues concerning research in social psychology. By gaining hands-on 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). Limited enrollment: 25. Lecture, discussion, and laboratory work.

Prerequisite: PSYB07, PSYB10, PSYB41 (beginning 1983-84)
Session: Winter Day
K. Dion

PSYB12S Advanced Social Psychology
A detailed examination of selected social psychological issues introduced in PSYB10.

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 the relationship between attitudes and behavior will be considered. In addition, the course examines belief systems and their many manifestations as moral ideologies.

Teaching method: lectures.

Prerequisite: PSYB10
Session: Winter Day

PSYB20F Developmental Psychology
Developmental processes during infancy and childhood. Material covered will be drawn from both cognitive and social developmental perspectives.

This course is divided into two parts. The first examines broad frameworks which have been offered to explain human development, e.g., Piaget's cognitive theory, social learning theory. The second part focuses on selected research areas which deal with different aspects of social and cognitive development in the infant and child, e.g., social attachment, intelligence, sex-roles and achievement. Two lecture hours and one tutorial per week.

Prerequisite: PSYB10
Session: Winter Day (F)

PSYB21F Advanced Developmental Psychology
This course considers the development of interpersonal and interpersonal processes from a life-cycle perspective. The emphasis will be on development during early to middle adulthood, with some material drawn from earlier phases of development for comparative purposes.

Among the issues which may be considered are the following: the development of self-concept, intrinsic motivation, achievement, interpersonal attraction. Teaching method: lecture-discussion.

Prerequisite: PSYB20
Session: Winter Day
K. Dion

JLPB24S Developmental Psycholinguistics
The development of the facility for speech in childhood. Acquisition of a first language. The neurological prerequisites for speech and writing.

There will be lectures and discussions.

Exclusion: (LINB15)
Prerequisite: One full course equivalent in LIN or PSY.
Session: Winter Day
A. Gopnik

PSYB30S Personality
An introduction to some of the influential theories of personality and the research they have guided. Specific theories covered vary from year to year. A typical selection might include the work of Skinner, Lewin, Freud, Jung, Laing and Fromm.

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.

Prerequisite: PSYB10
Session: Winter Day
A. Kukla

PSYB32F/S Abnormal Psychology
A critical examination of psychodynamic, S-R, cognitive-interpersonal, biological, and phenomenological views concerning the causes and treatment of abnormal behaviour. The conceptual problem of defining abnormality and categorizing its varieties will be emphasized.

Definition and identification of abnormality, historical-cultural influences on attitudes, practices, theories, and research. A variety of past and current viewpoints in hypothesis, model and theory development, 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 neurones, psychoses, and other behavioural disorders of adults and children, including cognitive, emotional, sensory-perceptual, psychomotor, and motor aspects; approaches, methods of investigation, and findings in psychological, psychophysiological, genetics, and epidemiological research; management, control, and modification of abnormal behaviour; within and outside institutions, including psychological, psychotherapeutic, learning-based, and social engineering approaches.

Prerequisite: PSYA01
Session: Winter Evening (F.S)
J. Pauker

PSYB34F Psychometric Methods
An intensive exploration by means of lectures and workshops of the principles and methods underlying the construction of psychological tests, the interpretation of the scores they yield, and the assessment of their worth as diagnostic and predictive devices in educational, industrial, and clinical settings, illustrated by reference to a wide variety of measures of talent, interest, and character.

Limited enrolment: 25
The course focuses upon testing rather than upon tests. It seeks to impart those psychometric skills broadly applicable to the range of assessment procedures; it does not take as a significant objective the development of skill in the administration and scoring of particular tests.
Exclusion: (PSYB33)
Prerequisite: PSYB07 (or equivalent); PSYB01
Session: Winter Day
B. Foyen

PSYB40S Learning
Critical review of basic theories and issues in the psychology of learning, with selected laboratory exercises in animal learning. An introduction to problems and techniques in the study of the acquisition of behavior. Topics include reinforcement, motivation, classical and instrumental conditioning principles, theory construction.

The course provides theoretical and empirical experience relevant to basic concepts and current problems in learning and motivation.
Prerequisite: PSYAD01; PSYB01; (PSYB09); PSYB07 or STAB31 (MATB57)
Session: Winter Day
G. B. Biederman

PSYB45S Behaviour Modification: Origins and Applications
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 modification and control.

Philosophical underpinnings: basic concepts and models of behavioral change; research strategies; operant procedures, reinforcement, schedules, extinction, shaping, self-reinforcement, fading, chaining, instructions, the token economy, behavioral contracting, biofeedback, punishment and its side effects; cognitive 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 obesity, treatment of depression: systematic desensitization, treatment of anxiety, aversive counterconditioning, treatment of alcohol and drug abuse.
Prerequisite: PSYB01
Session: Winter Evening

PSYB50F Sensation and Perception
An investigation into the processes by which we gain information about the world around us, and the laws which govern the way in which that information is used to construct our perceptions. Stimuli for the human senses, especially light and sound; receptors and sensory pathways with emphasis on vision: sensitivity, colour and tone; 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.
Prerequisite: PSYB01
Session: Winter Evening
J. Funes

PSYB51S Perceiving and Knowing
Theory and empirical research on visual and tactile perception, representation and communication.

Topics include perception and depiction in the handicapped and normal perceiver, perceptual information and projection, illusion, stability and instability in perception, possible and impossible scenes, human and computer scene analysis, ambiguity in perception, literal and metaphoric pictures, perception of objects and images, out-of-the-representation, effects of incomplete information. The empirical research is on adults and children, a range of human cultures and on different species. Demonstrations and exercises can part of the course work.
Pre-requisite: PSYAD01
Session: Summer Evening, Winter Evening
J. M. Kennedy

PSYB53S Microcomputers in Experimental Psychology
Examination of the widespread impact of computers in experimental psychology. This is a laboratory course emphasizing the use of microcomputers in preparing, controlling, and analyzing experiments. Students will use 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. Limited enrolment: 20.
The teaching method will consist of lectures and hands-on using the computer as a tool for psychological research, and learning of the function of programming language. No previous computer experience is expected or required.
Prerequisite: PSYAD01; PSYB01 (PSYB09/PSYB02); and at least two other B-level psychology courses.
Exclusion: (PSYC56)
Session: Winter Day
C. MacLeod

PSYB55F Psycholinguistics
Theories and experiments that address the question: how is language comprehended and produced? Linguistic theories that form the basis of psychological theories and the experimental evidence for and against each theory are reviewed, and an overview of current work in the field is offered.
The concern of the field of Psycholinguistics is the relationship between the observed phenomena of language and the unobservable operations of the human brain, the reality of the structures and units proposed by linguistics, the acquisition of language by the child, and the relationship between human language and phylogenesis will be discussed.
There will be lectures, films and discussion.
Prerequisite: One full course equivalent in either PSY or LIN
Session: Winter Day
G. Gopnik

PSYB60F Brain Mechanisms and Behaviour: I
The relationship between behaviour and the structure and function of the nervous system. Topics covered include: neuroanatomy, structure and function of neurons, neural mechanisms and movement, and the physiological basis of perception. Students with prior credit for PSYB65 may take PSYB60 for credit.
The objective is to give the student a firm grasp of the structure and function of nervous system and its role in the behaviour of an organism. Neuroanatomy, structure and function of neurons, neuropharmacology, and neural mechanisms of sensation and movement.
Three lecture hours per week. Concurrent readings from original sources will supplement the text and lecture material.
Co-requisite: PSYB01; PSYB07
Session: Winter Day
C. MacLeod

PSYB61S Brain Mechanisms and Behaviour: II
Physiology of Motivation and Learning
A continuation of PSYB60. Topics covered under the category of Motivation include: physiological basis of eating, drinking and sexual behaviour, sleep, and the neural correlates of reward.
Topics covered under Learning include: physiological processes and memory, structural basis of learning and memory, biochemistry and memory.
The course is designed to provide students with an understanding of the physiological substrates underlying behaviour. Discussions will centre around current topics in physiological psychology and will draw on recent research to support or challenge current theories in motivation and learning. In addition, other areas of feeding, sexual behaviour, and reinforcement will be discussed from neuroanatomical and neuropharmacological perspectives.
PSYB62Y Research in Physiological Psychology
Instruction in a variety of techniques used in investigations of nervous system function. The course is intended for students particularly interested in the neurosciences who are pursuing a Specialist Programme in Psychology Biology or Neurosciences.

The course consists of a dissection of a sheep brain. Subsequently, the procedures covered include: (1) histology (preparing, cutting and staining neural tissue); (ii) dissecting specific regions of the central nervous system; (iii) chemical stimulation of the brain; (iv) electrical stimulation of the brain; (v) programming and measuring techniques for two hours of lectures and three hours of scheduled laboratory work per week; in addition, students might spend a few further hours of their free time working in the student laboratory. The course involves a series of five laboratory projects.

Prerequisite: PSYB1, PSYB09 or STA887 (MA187), PSYB01 (PSYB90) or a Biology course; permission of instructor. Corequisite: PSYB60, PSYB61 and PSYB08 are recommended.

Session: Summer Evening, Winter Day
N M Milgram

PSYB65F Biological Foundations of Behaviour
An examination of the structural and physiological basis of behaviour. The course is geared towards non-biologically oriented students. Students with prior credit for PSYB60 may not take PSYB65F for credit.

The structure and function of the nervous system are covered sufficiently to allow the student an understanding of the basis of human behaviour. The material is organized around the following topics: the central nervous system (multiple sclerosis, epilepsy, organic brain damage, strokes, senility, mental deficiency and speech disorders); drugs of use and abuse (stimulants, depressants, and hallucinogens); and the biological basis for violence, schizophrenia, depression, psychosis and anxiety. Three hours lecture weekly.

Exclusion: PSYB60
Prerequisite: PSYB01 or permission of instructor
Session: Summer Evening, Winter Day
D J Chute, T Pelit

PSYC15F Current Topics in Social Psychology
An intensive examination of selected issues and research problems in social psychology. Limited enrolment: 10.

Prerequisite: PSYB12 or PSYB10 (plus permission of instructor).
Session: Winter Day

PSYC16F Critical Analysis in Social Psychology
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. The course is designed to examine the relationship between cognitive and motivational aspects of social psychology.

Prerequisite: PSYB10
Session: Winter Day
N Milgram

PSYC22S Socialization Processes
The processes by which an individual becomes a member of a particular social system or systems. The course examines both the content of socialization (e.g., development of specific social behaviours and the context in which it occurs e.g., family, peer group, etc.). Material will be drawn from both social and developmental psychology. Limited enrolment: 25.

Prerequisite: PSYB10, PSYB20
Session: Winter Day
D A Do

PSYC26F Current Topics in Personality and Motivation
An intensive examination of selected issues and research problems in the areas of personality and motivation. Limited enrolment: 25.

Prerequisite: PSYB30
Session: Winter Day (F)
M Kukla

PSYC32F/S Current Topics in Abnormal Psychology
An intensive look at selected current problems in the study of abnormal behaviour. Limited enrolment: 30.

Topics will be selected from among the more widely studied areas of abnormal psychology: child psychology, and will include descriptions of child and adolescent behaviour problems, classification systems and methods, biological and socio-cultural contributors to abnormality, treatment and management approaches and follow-up studies. Lectures, class discussion, and student presentations.

Prerequisite: PSYB20, PSYB32
Session: Summer Evening (F), Winter Day (S)
J Naucke


Prerequisite: PSYB01 (PSYB90), PSYB40 (or PSYB41)
Session: Winter Day
J B Biederman

PSYC35S Current Topics in Human Information Processing
An intensive examination of selected issues and research problems in human information processing.

In 1985-86, the course will focus on the application of psychology to the law, particularly the perceptual and mental processes which influence the giving of testimony.

Session: Winter Day
M Smith

PSYC54S Art and the Psychology of Perception
Recent theories of perception and representation relevant to skill in the use of pictures and language.

Topics may include making and interpreting metaphors, recognizing cross-modal equivalence, learning how to draw and symbolize, acquiring the capacity to novel and write narrative, the training of talent, and effects of perceptual and cognitive handicaps on the development of skills with pictures and words.

The research to be considered will emphasize studies on child development. Teaching methods include lectures and student presentations.

Pre-requisites: A PSY 200 series or a PSY B50 series.
Session: Winter Day
J M Kamrad

PSYB90F Current Topics in Comparative and Physiological Psychology
An intensive examination of selected issues and research problems in comparative and physiological psychology.

The course covers the development of the nervous system and related behavior from conception to death. The major emphasis will be on the prenatal brain development, and factors governing its normal or abnormal growth. The other end of the development spectrum, the aging brain will also be considered, including the biological problems and theories of aging on the brain. Students will be required to work 3-4 hours per week in a practicum situation, working with either mentally retarded, autistic, or hyperactive children, and aged or senile adults, or with experimental laboratory animals. Two hours of lecture per week.

Prerequisite: PSYB60, permission of instructor
Session: Winter Day
T Pelit
PSYC655S Clinical Psychopharmacology
Pharmacology of the central nervous system, pharmacokinetics and theoretical bio-psychiatry. Detailed discussion centres on the psychotropic drugs used as anti-psychotics, antidepressants, anxiolytics, and anti-depressants. Related content areas, such as geriatric pharmacology and pharmacological applications to clinical neuropsychology will be introduced.

The course is designed to integrate abnormal psychology and physiological psychology content areas. Lecture, seminar and practical observation.
Prerequisite: PSYB6 or PSYB65 or permission of instructor.
Session: Winter Day(S)
D.L. Chute

PSYB5S History of Psychology
Paradigm change in the history of psychology; empiricism; Greek psychology; the modern era; Descartes, Leibnitz, the English Empiricists; nineteenth century developments; the emergence of descriptive and positivist methodologies; twentieth century approaches; systems theory, functionalism, structuralism, behaviourism, phenomenology. Limited enrolment: 35.

The course examines the diverse contributions of the Greek philosophers which established the foundation of Western thought. The course then turns to the conceptual, methodological and factual developments in both continental and English science and philosophy from the fourteenth to the nineteenth centuries. The appearance of psychology in its modern form in the second half of the nineteenth century is discussed and a critical analysis is provided of the various modern schools including systems theory, functionalism, structuralism, behaviourism and phenomenology.
Prerequisite: PSYA01; two B-level half-courses in Psychology
Session: Winter Evening
G. Cuphirk

PSYC90F/S/H Supervised Study in Psychology
A reading or research project. These courses provide an opportunity to investigate an area in depth after completing basic coverage in regularly scheduled courses. They are not intended as substitutes for advanced courses in fields where these are available. The student must demonstrate that his or her background is adequate for the project proposed and should present a clear rationale to prospective supervisors. Frequent consultation with the supervisor is necessary and extensive library research and/or data collection will be required. Such a project will normally culminate in a written submission but other bases of evaluation may also be determined by the supervisor.
Prerequisite: Three full-course equivalents in Psychology; permission of instructor.
Session: Summer Day, Summer Evening, Winter Day, Winter Evening
Supervision by a faculty member

PSYC98Y Thesis in Psychology
This course is intended to offer to qualified students the opportunity to engage in a year-long research project under the supervision of an interested member of the faculty in Psychology. The project will culminate in a written report in the form of a thesis and a defense of that report. During the course of the year, at appropriate times, students will meet to present their own research proposals, to apprise the proposals of others and to discuss the results of their investigations.
Students will meet as a group with the coordinator as well as individually with the supervisor.
Prerequisite: Satisfactory completion of fifteen full-course equivalents in any discipline but including PSYB07; one laboratory half-course in Psychology and two additional full-course equivalents in Psychology; consent of a faculty member in Psychology to serve as Research supervisor.
Corequisite: PSYB08 recommended
Session: Winter Day
Coordinator: TBA

Quaternary Studies

Courses Not Offered in 1983-84

PSYB5S Men and Machines
Prerequisite: PSY-A01; quantitative skills such as are required in PSYB07. or (PSYB09) are an advantage.

PSYB4S Comparative Psychology
Prerequisite: PSY-A01

PSYB4S Current Topics in Animal Learning
Prerequisite: PSYB40

PSYC52S Structures in Psychology
Prerequisite: PSYB07 or STAB57 (MATB57) or (PSYB09). PSYB20 or PSYB51; permission of instructor.

PSYC80F Philosophy and Psychology
Prerequisite: Three B-level half-courses in Psychology and one B-level half-course in Philosophy

Major Programme in Quaternary Studies
Supervisor: H.B. Schroeder (284-5136)
The Quaternary Period embraces the last two million years of Earth history. Major climatic changes which occurred during this time resulted in repeated expansion and recession of continental and mountain glaciers, a series of wet and dry periods in low latitudes, raised fluctuations in sea level, development of ephemeral but often large inland seas and proglacial lakes, etc.

These dramatic changes have strongly influenced the distribution and, to an extent, the forms of plant and animal life on earth today. Among these are the hominids whose appearance and development coincides with the Quaternary.

Detailed reconstruction of Quaternary environments, involving both the physical and biological components of the landscape - and their placement in a historical context is clearly an interdisciplinary task. Such studies bring together the Quaternary geologist, physical geographer, historical ecologist, paleoanthropologist, archaeologist and many others. In this programme the student will develop experience in the multidisciplinary approaches used in studying the Quaternary as well as specialist expertise in one or more of the sub-disciplines. The programme consists of seven courses, two of which are required: QUAA07 and QUAA01Y. Both reflect the interdisciplinary nature of Quaternary Studies and are presented by faculty from Scarborogh College and occasionally from other parts of the University who are involved in Quaternary research. Of the remaining five courses required, the student is given a wide choice but is nevertheless expected to develop expertise in one (or more) of the sub-disciplines by following a sequence of A and B- or C-level courses noted below.

A-level
QUAA07 (NSCA03) Ice Ages and Human Ecology
plus at least two of:
ANT707Y Introduction to Anthropology
BIOA07Y Introduction to Biology
GEGA07Y Introduction to Geology
GLGA01Y Planet Earth, an Introduction to Geology
QUAC01Y Quaternary Environments and Man
An interdisciplinary course on the physical, biological and cultural events and processes of the Quaternary Period. The seminars and reading part of the course will be devoted to recent, advanced methods in environmental reconstruction. The laboratory part will be centered on a local project in which geological, biological and cultural aspects of a site or site complex will be subjected to an integrated field and laboratory investigation.

One two-hour seminar per week and one threethree-hour field/laboratory period on alternate weeks.
Exclusion: QUAB02Y
Prerequisites: QUAC03Y plus any two (2) of the B-courses listed in the Quaternary Studies Major Programme
Session: Winter Day
TBA

* The student should note that prerequisites for these courses are not included in the Quaternary Studies Programme.

QUAC03Y Ice Ages and Human Ecology
A thematic introduction to the inter disciplinary study of the “Ice Age” (Quaternary) and of human palaeoecology, involving several Quaternary specialists.
A series of lectures which emphasize research problems of current interest, such as climatic change, the formation of glacial ice, ice movement and their effects on the landscapes, periglacial ecology, faunal extinctions, human origins, the domestication of plants and animals, human migration into the Western Hemisphere, and earliest occupations in Ontario. One two-hour lecture per week, and occasional fieldtrips.
Exclusion: NSNSCA003
Session: Winter Day
J C Ritchie (co-ordinator)

Renaissance Studies
These Programmes are for students who wish to study the various cultural aspects of the period known as the Renaissance. Their nature is interdisciplinary, and they necessitate learning the methods of more than one discipline. Many of the courses (those with an asterisk) require prerequisites within the disciplines that offer them, and the student is advised to plan his Programme carefully so that he does not choose more courses with prerequisites than he can qualify for. For example a student who plans to take ITAB357/8, ITAB335 or ITAB345F/S should note that ITAB01Y or ITAB11Y is a prerequisite to those courses, and plan his programme accordingly. The student should also note that some of the normal prerequisites can be waived for students in these Programmes. (It will be noted that courses on the St. George campus are also listed. The student, however, must, however, take the majority of his courses at Scarborough College — see p. 24.)

Specialist Programme in Renaissance Studies
Supervisor: E P Vicari (264-3175)
Students must complete ten full-course equivalents in each of the following categories:

1 Background
The student must take one full-course equivalent from (a) and one from (b) and one other from (c) or (d).

a HISS06Y Europe in the Middle Ages
HISB13Y Europe in the Reform Era, 1500-1600
HISB23Y Tudor and Stuart England
HISC12Y The Renaissance in Europe, 1500-1550
HISC14Y The European Mentality in the Early Modern Period (1500-1700)
HIS357Y The Renaissance
HIS230Y Politics and Social Change in England, 1530-1600
HIS243H Early Modern Europe (1540-1648)
HIS303H The Italian Renaissance
HIS349Y Renaissance and Baroque France, 1500-1600
HIS333Y Topics in Tudor Social History
ECO303Y The Dynamics of European Economy, 1360-1750
HUMA11Y Greek and Roman Mythology
REL106Y Basic Christian Beliefs
REL206Y Reformation in the Sixteenth Century
REL232Y Christianity, Middle Ages and Renaissance

b PHIL00Y The Mythological Framework of Western Culture
PHL040F Plato and His Predecessors I
PHL041F Plato and His Predecessors II
PHL042F Aristote II
PHL043S Aristotle II
PHL044F Philosophers of the Middle Ages I
PHL045Y Philosophers of the Middle Ages II
PHL046F Philosophy of the Early Modern Age I
PHIL105F Philosophy in Western Culture
GCL230Y Greek and Roman Philos
PHL200Y The Birth of Western Philosophy
(Plato and Aristotle)
PHL268H Political Theories: Ancient and Medieval
POLB70Y Political Thought from Plato to Locke

2 Fine Art, Music and Drama
The student must take two of FARB32F, FARB32F and FARC06F, and two additional full-course equivalents from this group.
FARB15F Renaissance in Italy
FARB16Y The Arts of Northern Europe, 1400-1500
FARB19F Michelangelo
FARC09F Advanced Studies in the High Renaissance
MUSB04F Music of the Renaissance
MUSB15F Music in Elizabethan England
MUS301H Early Music
DRA126B Medieval and Early Tudor Drama
FAH200Y European Art from 1400-1700

3 Language and Literature
The student must take three full-course equivalents in literature, one of which must be in a language other than English. In addition to the three literature courses, therefore, he may have to satisfy prerequisites in language, from those listed below.

Prerequisites in French
FREN06Y Language Practice I
One B level course in French, not B11F, B12S, or B14S.
Prerequisites in Italian:
ITAL01Y or A11Y or Grade 13 Italian
ITAL01Y or B11Y
Prerequisites in Spanish:
SPA01Y or Grade 13 Spanish
SPA01Y
SPA03S
Courses in the literatures:

- ENGB09Y: Poetry and Prose of the English Renaissance
- ENGB10Y: Shakespeare
- ENGB12Y: English Drama to 1642
- ENGC04Y: Studies in the Renaissance Literature
- ENGC10F: Problems in Later Shakespeare Literature
- FRED25Y: Baroque and Mannerism
- FRE46Y: Dante and Medieval Culture
- ITAB33F/S: Petrarach and Boccaccio
- ITAB34S: Machiavelli and Renaissance Thought (Exclusion: HUMB50S)
- ITAB35S: The Renaissance Epic
- ITAB36S/F: Italian Sixteenth-Century Theatre
- ITAB40S/F: Lyric Poetry of the Renaissance
- ITAB40S/F: Renaissance and Baroque Literature
- HUMB21S: The Literature of the Spanish Mystics
- HUMB33Y: World Vision from the Middle Ages to the Renaissance
- HUMB50S: Machiavelli and Aspects of the Italian Renaissance (in translation) (Exclusion: ITAB335)
- HUMC10H: Humanities Seminar
- JSGD24Y: Golden Age Drama
- SPA926S: Golden Age Poetry
- SPA930Y: Golden Age Literature
- VICS32Y: Renaissance Italian Literature in Translation
- PHLB44F: Philosophers of the Middle Ages I
- PHLB45S: Philosophers of the Middle Ages II
- PITB44F: Plato and His Predecessors I
- PHLB45S: Plato and His Predecessors II
- PHLB47F: Aristotle I
- PHLB48F: Aristotle II
- PHLB49F: Philosophy of the Early Modern Age I
- PHIL40S: Philosophy in Western Culture
- GLL230Y: Greek and Roman Philosophy
- PHIL200Y: The Birth of Western Philosophy (Plato and Aristotle)
- PHIL26H: Political Theories: Ancient and Medieval
- POLB70Y: Political Thought from Plato to Locke

2. Fine Art, Music and Drama

Two full-course equivalents from the following:
- FAIR10F: Renaissance in Italy
- FARB16Y: The Arts of Northern Europe, 1400-1500
- FARB19F: Michelangelo
- FARC09F: Advanced Studies in the High Renaissance
- MUSB04F: Music of the Renaissance
- MUSB15F: Music in Elizabethan England
- MUSB10H: Early Music
- DRAM12: Medieval and Early Tudor Drama
- FAH200Y: European Art from 1400-1750

3. Language and Literature

Three full-course equivalents from the list under (3) of Specialist Programme.

Major Programme in Renaissance Studies

Supervisor: E. F. Wicke (284-3175)

Students must complete seven full-course equivalents from the following list:

1. Background
   - Two full-course equivalents from the following:
     - HISB13Y: Europe in the Reformation Era, 1500-1565
     - HISB17Y: The Renaissance in Europe, 1350-1565
     - HISC14Y: The European Mentality in the Early Modern Period (1500-1700)
     - HIS357Y: The Renaissance
     - HUMA11Y: Greek and Roman Mythology
     - REL106Y: Basic Christian Beliefs
     - REL206Y: Reformation in the 16th Century
     - REL232Y: Christianity: Middle Ages and Renaissance
     - REL320Y: The Mythological Framework of Western Culture

2. Discipline Representatives: S. Whalen
   - The Russian discipline offers a selection of courses in Russian language and literature. Both language and literature courses may be combined in a number of ways, where prerequisite requirements have been satisfied. All Russian literature courses, with the exception of RUSB01Y, RUSB21Y, RUSB22Y, RUSB02Y, RUSB01Y, RUSB02Y, and RUSC05Y, are taught in translation and are open to non-specialists.

College Programme in Russian and Related Studies

Supervisor: S. Whalen (284-3258)

This programme is designed for students interested in Russia and East Europe. In a world in which Russia and the socialist countries of Eastern Europe play such an important role, a programme in Russian and Related Studies can do much to promote a better understanding between East and West, in academic, governmental, industrial, journalistic and other fields.

The programme is aimed at two different groups of students: first, those whose main interest is a detailed knowledge of the area with a view towards concentrating in Russian language and literature or Russian and Soviet history, political science or economics. Second, those interested in a general knowledge of the area as a complement to some other field of study.

The programme requires the completion of ten full-course equivalents, one of which must be at the C-level.

1. Two consecutive courses in Russian language from RUS101Y, RUSB02Y, RUSC05Y.
2. Four courses to be chosen from the following three groups and to include one from each group:
   a. RUSB11Y: The Nineteenth-Century Russian Novel 1830-1900
   b. RUSB22Y: Twentieth Century Russian Fiction, 1900-1940
   c. RUSB23Y: Soviet Russian Underground Literature from the 1920's to the Present
   d. RUSC01Y: Twentieth Century Russian Poetry
   e. HISB07Y: Russia from the Thirteenth Century to the Present
   f. HISC70Y: The Russian Intelligentsia
   g. POLB66Y: Soviet Government and Politics
   h. ECOA01Y: Introduction to Economics
3. Four further full-course equivalents to be chosen from (2) or from the following list and to be approved by the Supervisor:
   - RUS301Y, RUSB11Y, RUSB21Y, RUSB22Y, RUSB23Y, RUSB02Y, RUSC01Y, RUSC02Y, RUSC03Y, RUSC04Y, HUMB13Y, HUMB42S, HUMB44F

Overseas Programme

Students in the Russian and Related Studies Programme, after completing their second year of Russian language study, become eligible to apply to go to the Fuksin Institute of Russian Language and Literature in Moscow, USSR, as participants of the Russian Studies Programme at Dalhousie University in Nova Scotia.

Each year some twelve Canadian students are selected by Dalhousie's Overseas Program for four months of studying Russian in Moscow (February - May).

The programme involves 4 1/2 hours of intensive instruction per day by Soviet staff; students are housed three to a suite in the University Hotel; late afternoons and evenings are free for cultural and other activities. The cost, which covers air transportation Montreal-Moscow return, tuition, texts, room and board, is $2,500.

Before applying to Dalhousie, and in order to improve the chances, interested students are encouraged to undertake some additional Russian language study in a supervised reading course.

For information consult the Supervisor.

Major Programme in Russian Language and Literature

Supervisor: S. Whalen (284-3258)

The programme consists of seven full-course equivalents:

1. Two consecutive courses in Russian Language from RUS101Y, RUSB02Y, RUSC05Y.
2. Five further full-course equivalents to be chosen from:
   a. RUS301Y, RUSB11Y, RUSB21, RUSB22Y, RUSB23, RUSB02Y, RUSC01Y, RUSC02Y, RUSC03Y, RUSC04Y, HUMB13Y, HUMB42S, HUMB44F
Students must include at least one full-course equivalent at the C-level.

See also the Specialist Programme in Language and Literature.

**RUSA10Y Introductory Russian**
Fundamentals of Russian grammar, with emphasis on comprehension and reading, writing and conversation. Starting with the Cyrillic alphabet, students will study basic grammar and vocabulary. Equal emphasis is given to written and oral drills. In addition to structural oral work in laboratory and class, free conversation based on material read is encouraged. Four class hours per week, in addition to which the student is expected to spend one hour per week in the language laboratory. The textbook is *Colloquial Russian*, by W. Harrison et al., Routledge, Kegan Paul. Session: Winter Day S. Whalen

**RUSA20Y Intermediate Russian**
An expanded study to increase ability in speaking, writing and reading Russian.
A study of Russian morphology involving translation, composition, selected reading in the original and conversation. Four hours a week in two intensive two-hour sessions plus additional language laboratory practice. The textbooks used are: P. A. Day's and D. V. Oparine's *Making Progress in Russian*, Xerox, 1975; S. Khavronina and A. Shoshenskaya's *Russian in Exercises*, Progress, S. Khavronina, *Russian As We Speak It*, Progress. Selection of texts for reading chosen according to the particular interest of students.
Exclusion: RUSA11Prerequisite: RUSA10 or completion of Grade 13 Russian Session: Winter Day C. Ponomareff

**RUSA11Y The Nineteenth-Century Russian Novel, 1830-1880**
A study of the Russian novel during this half century of great literary achievement. Attention will be focused on realistic, romantic, grotesque, and psychological forms of writing, emphasizing the continuity and variety of these different literary forms. The course will also explore the human and social vision behind these works. Texts: A. Pushkin, *The Captain's Daughter*; N. Lesnov, *A Hero of Our Time*; S. Turgenev, *Fathers and Sons*; P. Dostoevsky, *Crime and Punishment*; L. Tolstoy, *Anna Karenina*. Hours two per week of lecture and discussion. Session: Winter Day C. Ponomareff

**RUSB17Y Dostoevsky's Major Fiction**
A study of Dostoevsky's novels. Particular attention will be paid to his ideological and artistic significance in the development of nineteenth-century Russian literature and culture. Lecture and tutorial, two hours a week. Session: Winter Day C. Ponomareff

**RUSC34F**
**RUSC33S**
**RUSC34Y Supervised Reading**
These supervised reading courses are designed for individual or very small groups of students who would like to pursue specific projects in Russian language and literature. Classes usually meet every other week for a two-hour session and students engaged in a literary project are expected to produce a paper in their area of study.
Prerequisite: RUSH2 Session: Winter Day or Winter Evening Staff

**Courses Not Offered in 1983-84**

**RUSA01F**
**RUSB22Y**
**RUSB24F**

**Social Science**

**SOS861S Origins of the Social Welfare System**
The philosophy and history of the Canadian welfare system. Its religious, secular, political and economic origins will be explored at some detail. Against this historical and ideological background, some current problems will be examined: guaranteed income, services for children and the elderly. Session: Winter Day

**Society, Values and Medicine**
The programme provides a focus for the study of social, political and ethical aspects of medicine in North America and cross-culturally.
There has in the last decade been an increasing awareness of the large extent to which social, political and ethical judgments and concepts are involved in the theory and practice of medicine. There has also been a growing awareness that, while on increased ability on the part of physicians to deal with these aspects of medicine is desirable and clearly needed — an excellent reason for those contemplating medical careers to consider seriously this programme — these are matters about which society and not medicine alone should deliberate and make judgments. However, this requires that individuals be exposed to the issues and be provided with the analytic skills that enable them to think as clearly as possible about the issues. This programme is designed to meet these requirements.

**Major Programme in Society, Values and Medicine**
Supervisors: M. Hammond (Sociology 284-3193); P. Thompson (Philosophy 284-3279); The programme requires completion of six full course equivalents as described below.

1. ANTB51Y, ANTCS4F/5 or ANTC46F; PHLB10F/S, PSYB10F/S, PSYB20F/S, SOC11F7/S
2. Two full-course equivalents from the following group: ANTB44Y, PHLB11F/S, PHL11F/S, PSYB00F/S, SDC11Y, SDC11F7, SOC12F/S, and whichever course of ANTC45F/6 or ANTC43F/5 was not selected in 1

Note: ANTCA1Y and PSY01Y are normally prerequisites for ANT and PSY courses in this programme.
Sociology

Assistant Chairman: M. Hammond
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 cooperation, competition, and conflict.

Students may wish to take Sociology courses as a part of a general education, in anticipation of the usefulness of these courses in future occupations or professions, or as part of a Specialist or Major Programme.

The major course, SOC010, is intended to familiarize students with the special theories, methods and questions of sociology as a part of liberal education. In addition, the AD1 course provides a minimum background of knowledge about sociology, and hence is a prerequisite to many of the more advanced courses.

Students who want to learn about certain areas of sociology which may be useful in later occupational situations may consult faculty advisors who are prepared to assist them in course selection and provide informal advising. There are no formal requirements for these special areas and they will not be designated on diplomas.

The faculty advisor for special areas of concentration is:

Social Work - Prof. R.L. James
Urban Studies - Prof. J. Hannigan
Science and Medicine - Prof. M. Hammond
Education - Prof. J. A. Lee

Specialist Programme in Sociology

Supervisor: R. James (284-3193)
The programme requires completion of eleven and one-half full-course equivalents as described below. No more than fourteen full-course equivalents in Sociology may be included in this four-year degree.

1. SOC010 Introduction to Sociology
2. SOC080Y Methods in Social Research
3. SOC080F/S Social Statistics
4. SOC010Y History of Social Thought
5. SOC050Y Contemporary Social Theory
6. One full-course equivalent in a macrostructural field at the B-level. Any one of SOC004Y, SOC007Y, SOC010Y, SOC013Y, SOC015Y, SOC016Y, SOC020Y, SOC023Y or JCSB27Y
7. One full-course equivalent in a microstructural field at the B-level. Any one of SOC020Y, SOC037Y or SOC020F/B905.

SOC010Y Introduction to Sociology

The course is divided into three basic units. It will start with a critical overview of the logic and methods of social scientific research. Topics will include the logic of research, research design and causal analysis, and methods of data collection. Once the fundamentals have been covered, an effort will be made to teach students how to read and critically evaluate research reports. Several studies will be examined in detail, and then students will be given the opportunity to do their own evaluations. The final goal will be to provide some practical experience in applying these concepts. Using data sets provided by the instructor, students will be taught how to interpret tables and graphs and to employ data to test hypotheses.

Prerequisite: One full-course equivalent in Sociology.
Session: Winter Evening

SOC004Y Structure and Interpersonal Relations

The course begins with a consideration of the problem of social order, i.e., how we constrain individual desires and conflicting people to act jointly. We will also examine the problem of the "absurd", using Camus' Outsider. This will be followed by an examination of the nature of social interaction and how it influences our behavior, with examples from research on mental illness and stereotyping. Other topics include status and power relations in small groups, social influence processes, and the social psychology of sex and race relations.
Prerequisite: One full-course equivalent in Sociology.
Session: Winter Day
J. Lee

SOC005Y History of Social Thought

A study of the development of sociology and the works of sociologists whose ideas have had historical and contemporary relevance. The course begins with a basic discussion of the nature of sociological theory and a short look at ideas on society in Greek, Roman, and Medieval times. It will then analyze the development of social theory in the nineteenth and early twentieth centuries. In the work of theorists such as Marx, Durkheim, Spencer, Simmel, and Weber. Finally, contemporary and historical schools of sociological theory will be considered.
Prerequisite: One full-course equivalent in Sociology.
Session: Winter Day
J. de Lannoy

SOC007Y Political Sociology

A review of social and political theories, major political ideologies, political development and the emergence of modern nation-states; political action (political protests, revolutions and wars of independence). The course will examine a number of contemporary issues such as the question of national unity, labour and politics, social action and law enforcement, etc.
Prerequisite: One course in Sociology
Session: Winter Day
M. Kinnon

SOC008F Social Statistics

A consideration of elementary statistics including the summarizing of data, the logic of statistical decision-making and a number of common statistical tests. Statistics is a basic tool used by sociologists. An understanding of statistics is necessary for the student who wants to become an informed reader of social research. A working knowledge of elementary algebra is required. However, the lecturer will undertake brief reviews of mathematics as needed arises.
Prerequisite: One full-course equivalent in Sociology.
Corequisite: SOC001
Session: Winter Day

SOC009F Sociology of the Family as a Group

The sociological study of the family in contemporary Western society. This course will focus on the family as a small group, emphasizing the family life cycle, member roles, interaction, patterns and interpersonal problems within the family relationships.
Exclusion: SOC012
Prerequisite: SOC001
Session: Winter Day, Summer Evening
R. James

SOC009F Sociology of the Family as an Institution

An examination of the family in its community, institutional and historical settings, emphasizing the various social factors which affect family life and its changing nature.
Exclusion: SOC012
Prerequisite: SOC001
Session: Winter Day, Summer Evening
M. Baker
SOCB10Y  Social Class and Social Stratification
Description and analysis of the nature of social stratification with emphasis on the basis of stratification, different theoretical viewpoints concerning stratification, the structure and function of stratification systems, social classes and associated behaviour, social mobility, and class conflict.
Prerequisite: One full-course equivalent in Sociology
Session: Winter Day
M. Hammond

SOCB13Y  Canadian Society
An examination of the context, structure, and development of Canadian society. Special consideration will be given to current issues such as control of natural resources, the future of Quebec, and the question of a distinctive national identity.
Prerequisite: One course in Sociology
Session: Winter Day

SOCB175  Medical Sociology
Social factors in sickness and health, training of doctors and nurses, organization of health care services, and alternatives to conventional medical care. This course is designed to meet the needs of students in both the natural and the social sciences.
Session: Winter Day
M. Hammond

SOCB18Y  Sociology of Deviant Behaviour
The analysis of the social processes by which deviance is 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 deviance such as crimes against persons, "victimless crimes", mental illness, sexual deviation and alcoholism.
Prerequisite: One full-course equivalent in Sociology
Session: Winter Day
R. James

SOCB24F  Sociology of Education: Primary and Secondary Levels
The sociology of the classroom, peer group influences on school performance, social class and sub-cultural influences on students and teachers. The formal and informal organization of school systems. Exclusion: (SOCB208)
Prerequisite: SOCB01
Session: Winter Day
J. A. Lee

SOCB25F  Sociology of Education: University and Adult Levels
Allocation and training of upper-level students, and relationships of higher education to the occupational system. Problems of education or retraining of older adults. Exclusion: (SOCB208)
Prerequisite: SOCB01
Session: Winter Day
R. O'Toole

JCSB27Y  Organizational Behaviour
Social factors in administration, the structuring of intra-organizational and inter-organizational relationships, and the distribution of power and dependency in society. Empirical studies used in the first term will focus on single organizations. Those used in the second term will focus on industries and other inter-dependent organizations.
Prerequisite: One previous course in Sociology, Economics, or Political Science
Session: Summer Evening, Winter Day, Winter Evening
M. MacKinnon

SOCB285  Research on Small Groups
A laboratory course consisting of a design of research for the study of the process of social interaction in small groups in relation to the stages of group development and the emergent internal structures of social relationships.
Prerequisite: SOCB01 and SOCB07 or permission of the instructor
Session: Winter Day
W. I. Salama

SOCB28F  Comparative Behaviour
The study of "uninstitutionalized" group behaviour - crowds, panics, crazes, riots and the genesis of social movements.
Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course
Session: Winter Evening
R. O'Toole

SOCB28S  Social Movements
The development of an approach to social movements which includes the following: the origin of social movements, mobilization processes, the career of the movement and its routinization. The course readings will be closely related to the lectures, and a major concern will be to link the theoretical discussion with the concrete readings on movements.
Prerequisite: Two courses in Sociology, including a B-level course
Session: Winter Day
S. Unger

SOCB28Y  Contemporary Social Theory
A consideration of basic questions underlying sociological thinking as they arise in the work of contemporary theorists and the social sciences. Students will be expected to develop an informed, critical perspective on current debates within the discipline. Though not formally required, a previous course in social and political theory (e.g. SOCB03Y) would be a distinct asset.
Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course
Session: Winter Evening
J.-L. deLannoy, W. I. Salama

SOCB110S  Sex, Self and Society
A sociological approach to the bases, establishment and maintenance of social differentiation based on sex, including a consideration of socialization and sex-typing, the division of labour, patterns of sexual behaviour, changing roles and protest movements.
Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course
Session: Winter Day
M. Baker

SOCB13S  Industrial Sociology
Comparative studies of industrial organization, considering scale, division of labour, organization of work teams, levels and forms of organization.
Prerequisite: One B-level full-course equivalent in Sociology (UCSB27 recommended)
Session: Winter Day
M. MacKinnon

SOCB22S  Qualitative Methods in Social Research
Systematic analysis of basically non-statistical or qualitative materials. The craftsmanship of research. The problems, limitations and techniques of sociological analysis, content analysis, and methodologies for the study of non-academic materials from non-scholarly sources. Limited enrolment: 15
Prerequisite: SOCB01 and one B-level course in Sociology
Session: Winter Day

SOCB28F  Sociology of Aging
An examination of the later stages of the family life cycle, with special reference to the period following middle age, and including social and psychological dimensions of aging, changing roles, departure of children, the significance of retirement, problems of adjustment to aging, the place of the aged person in the modern family, and bereavement.
Prerequisite: SOCB06 and SOCB09 (or SOCB12)
Session: Winter Evening
R. James
SOCC229S Variant Family Forms
A review and sociological analysis of non-traditional family forms and innovative life styles representing departures from conventional marriage and family patterns in the 1970's. Included will be "singleness", "living together", androgyny as a life style, non-monogamous forms, voluntary childlessness, communities and cooperatives, and "swinging". Special reference to structural and functional dimensions, role changes, special problems and community response.
Prerequisite: SOCCB05 and SOCCB09
Session: Winter Day
R L James

SOCC305S Criminal Behaviour
An advanced study of the causes and consequences of criminal behaviour, with special emphasis on Canada.
Exclusion: SOCC21
Prerequisite: SOCCB18
Session: Winter Day
M Baker

SOCC40F Supervised Independent Research
Student research by field methods, survey analysis or library or archival research. Regular supervision of data collection and analysis, culminating in a research report.
Prerequisite: Completion of at least ten full-course equivalents and permission of instructor.
Session: Winter Day
Staff

SOCC41S Supervised Independent Research
Student research by field methods, survey analysis or library or archival research. Regular supervision of data collection and analysis, culminating in a research report.
Prerequisite: Completion of at least ten full-course equivalents including SOCCB03, SOCCB01 and SOCCB06. By permission of instructor only.
Session: Winter Day
Staff

SOCC42F Advanced Seminar in Sociological Theory
Special topics in contemporary social theory, designed as a final year course for students taking a Specialist Programme in Sociology.
Prerequisite: SOCCB03, SOCCB01, and SOCCB06
Session: Winter Day
J Lee

SOCC43S Advanced Seminar in Research Methods
Special topics in methodologies used in contemporary sociological research. Designed as a final year course for students taking a Specialist Programme in Sociology.
Prerequisite: SOCCB03, SOCCB01 and SOCCB06
Session: Winter Day
S Ungar

Courses Not Offered in 1983-84

SOCCB05Y Urban Sociology
Prerequisite: One full-course equivalent in Sociology

SOCCB11Y Sociology of Science
Prerequisite: One full-course equivalent in Sociology

SOCCB14Y Comparative Social Structure
Prerequisite: One full-course equivalent in Sociology

SOCCB15Y Sociology of Mass Media and Communications
Prerequisite: SOCCB14

SOCCB16Y Social Change
Prerequisite: One full-course equivalent in Sociology

SOCCB23Y Population
Prerequisite: One full-course equivalent in Sociology or JCSB27

SOCC01F/S Sociology of Revolution
Prerequisite: Two full-course equivalents in Sociology (SOCCB14 and SOCCB16 recommended)

SOCC06F Applied Sociology
Prerequisite: Two courses in Sociology

SOCC07S Sociology of Occupations and Professions

SOCC11S Sociology of Law and Law Enforcement
Prerequisite: SOCCB18

SOCC12F/S Mathematical Methods in Sociology
Prerequisite: Permission of instructor

SOCC16F/S Sociology of Conflict
Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course

SOCC17F Social Change in the Third World
Prerequisite: Two courses in Sociology, one of which must be a B-level (SOCCB14 and SOCCB16 recommended)

SOCC18Y Sociology of Art and Culture
Exclusion: SOCCB09 and SOCCB18F/S
Prerequisite: Two full-course equivalents in Sociology

SOCC19F Sociology of Knowledge
Exclusion: SOCCB22
Prerequisite: SOCCB03

SOCC20Y Sociology of Religion
Exclusion: SOCCB20F/S
Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course

SOCC24S Changing Family Life in Canada
Prerequisite: Two courses in Sociology, one of which must be a B-level course

SOCC25F/S Comparative Race Relations
Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course

SOCC26F Sociology of Urban Growth
Prerequisite: Two full-course equivalents in Sociology

SOCC27F Social Class in Canadian Society
Prerequisite: Two full-course equivalents in Sociology

Spanish

Discipline Representative: R. Barta
Students enrolled in Spanish are offered a wide range of courses in the Spanish language and in Peninsular and Spanish-American literature.
Courses in Fine Art, History, Humanities, Linguistics, Philosophy, and in other languages and literatures, may prove valuable to those students as adjuncts to their plan of study or as an enrichment of their total programme.
Students intending to enroll in the Specialist Programme in Modern Languages or in the Specialist Programme in Language and Literature should consult the following in the Calendar.
It is important that students enrolled in Spanish, some of whom may later wish to enroll in the Faculty of Education or to continue their studies at the graduate level, confer with the relevant Supervisor at the earliest possible date in order to arrange a coherent and appropriately scheduled programme.

Majors Programme in Spanish Language
Supervisor: R. Barta (294-3306)
Seven full-course equivalents are required as follows:

SPA201Y/A Introductory Spanish (Note: Students who have Grade 13 Spanish must complete, in place of SPA201, one full-course equivalent from SPA courses which are not named in the programme.)

SPA202H Language Practice I
SPA201Y/B Intermediate Spanish
SPA203H Language Practice II
SPA201Y Advanced Spanish
SPA204F Phonetics
SPA215S History of the Spanish Language I
or
HUMB15Y Topics in Latin American Culture and Literature

SPA212F/S Stylistics and Translation
SPA222F/S History of the Spanish Language II
Language requirements will be waived by permission of the Supervisor in the case of students judged to have highly advanced knowledge of Spanish. 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.
Major Programme in Spanish Language and Literature

Supervisor: R. Barta (284-3205)

Seven and one-half full course equivalents are required as follows (A01Y and A02H do not count towards Programme requirement):

1. SPAB01YB: Intermediate Spanish
   Corequisite: SPAB03Y
   Session: Winter Day
   K. Göode and staff

2. SPAB02H: Language Practice I
   Corequisite: SPAB04Y
   Session: Winter Day
   R. Barta

3. SPAB03Y: Introductory Spanish
   Corequisite: SPAB02H
   Session: Winter Day
   K. Göode and staff

4. SPAB01Y: Advanced Spanish
   Corequisite: SPAB03Y
   Session: Winter Day
   R. Barta

5. SPAB02H: Language Practice II
   Corequisite: SPAB04Y
   Session: Winter Day
   R. Barta

6. SPAB03Y: Pre-Literary Examination of Texts
   Corequisite: SPAB04Y
   Session: Winter Day
   R. Barta

7. SPAB04F: Phonetics
   Corequisite: SPAB04Y
   Session: Winter Day
   R. Barta

8. SPAB05Y: Survey of Spanish Literature I
   Corequisite: SPAB04Y
   Session: Winter Day
   R. Barta

9. SPAB11Y: Survey of Spanish Literature II
   Corequisite: SPAB04Y
   Session: Winter Day
   R. Barta

10. SPAB01Y: Intermediate Spanish
    A continuation of SPAB01Y.
    The same format and methodology will be followed at a more advanced level. Three hours per week, one hour grammar, two hours oral practice.
    Corequisites: Grade 13 Spanish or SPAB01Y

11. SPAB02H: Language Practice I
    A companion course to SPAB01Y.
    Through reading material, composition, translation, and play-acting, this course forms an essential complement to the predominantly oral approach of SPAB01Y. Two hours per week in tutorial format.
    Corequisite: Grade 13 Spanish or SPAB01Y

12. SPAB03Y: Pre-Literary Examination of Texts
    The basic elements of style with rapid reading and comprehension of texts of various periods.
    This is not a literature course, but one which provides training in the methodical analysis of literary texts from Spain and Latin America. Its purpose is to develop the critical skills on which the understanding and enjoyment of literature depend. Two lecture/tutorial hours per week, with a further tutorial hour to be arranged. Regular attendance and class participation are essential.
    Corequisite: SPAB04Y

13. SPAB04Y: Phonetics
    An introduction to the phonetics of Spanish, with emphasis on the pronunciation of Castilian (with attention to regional variations in other dialects) and to provide an introduction to further linguistic work.
    The weekly lecture concentrates on the description and distribution of Castilian speech sounds and their phonetic analysis. The thematic study will develop in articulation, transcription, and dictionary. There is one laboratory hour per week of intensive oral practice.
    Corequisite: SPAB01Y
    Session: Winter Day
    R. Barta and staff

14. SPAB11Y: Survey of Spanish Literature I
    A companion course to SPAB01Y.
    Through reading material, composition, translation, and play-acting, this course forms an essential complement to the predominantly oral approach of SPAB01Y. Two hours per week in tutorial format.
    Corequisite: Grade 13 Spanish or SPAB01Y

15. SPAB12Y: History of the Spanish Language I
    The languages of Spain, from pre-Roman times to the medieval period.
    The objective of the course is to develop a basic understanding of how the Spanish language evolved from Latin, within the context of other Romance languages. A survey of the prehistoric and historic periods of Visigothic and Moorish civilizations in the Peninsula will be followed by an analysis of the characteristics of spoken Latin, as evidenced in non-classical texts (inscriptions, glosses, etc.)
    Corequisite: SPAB04Y
    Session: Winter Day
    R. Barta

16. SPAB21F: The Nineteenth-Century Spanish Novel
    A survey of the Spanish novel in the nineteenth century traced through reading and discussion of the work of representative authors of Neoclassicism, Regionalism, Realism, and Naturalism.
    A sampling of prose-writing in the Romantic period will lead to an examination of the gradual emergence of the nineteenth-century Spanish novel as a major literary form, and in particular the problem of the late re-birth of the realist novel with Galdós. Following reading and discussion of costumbrista and regional novels, attention will be focused on the theory and practice of realism and naturalism in Spain.
    Corequisite: SPAB04Y
    Session: Winter Day
    R. Barta

17. SPAB04F: Phonetics
    An introduction to the phonetics of Spanish, with emphasis on the pronunciation of Castilian (with attention to regional variations in other dialects) and to provide an introduction to further linguistic work.
    The weekly lecture concentrates on the description and distribution of Castilian speech sounds and their phonetic analysis. The thematic study will develop in articulation, transcription, and dictionary. There is one laboratory hour per week of intensive oral practice.
    Corequisite: SPAB01Y
    Session: Winter Day
    R. Barta

18. SPAB21F: The Nineteenth-Century Spanish Novel
    A survey of the Spanish novel in the nineteenth century traced through reading and discussion of the work of representative authors of Neoclassicism, Regionalism, Realism, and Naturalism.
    A sampling of prose-writing in the Romantic period will lead to an examination of the gradual emergence of the nineteenth-century Spanish novel as a major literary form, and in particular the problem of the late re-birth of the realist novel with Galdós. Following reading and discussion of costumbrista and regional novels, attention will be focused on the theory and practice of realism and naturalism in Spain.
**SPAC02F-C39F**

**CO75-C105**

**C11Y - Supervised Reading**

Students who wish to enter the Spanish Supervised Reading programme should enrol in any of the above courses (Y, F or S as appropriate). They should then contact a particular instructor in the discipline and discuss with him a proposed topic. Students should have sufficient background in the area they want to study more closely, and they should provide a rationale for choosing a specific topic. They will be expected to read most of the material on their own, and to meet with their tutor once a week. The exact arrangements will depend on the nature of the text and the level of ability of the students.

Specific topics in Peninsular Spanish and Latin American literature, linguistics and culture. Prerequisite: SPAB03, one course in Spanish literature.

**Session:** Winter Day

R. Barra, P. León, R. Skyrme

See also the following courses offered under Humanities:

**HUMB14Y** Topics in Latin American Culture and Literature

**HUMB15Y** The Civilization of Spain

**HUMB21S** The Literature of the Spanish Mystics

**HUMB45S** The Spanish Civil War: Fact or Fiction

**HUMC01S** Lyric Poetry of the Middle Ages in the Mediterranean Area

**Courses Not Offered in 1983-84**

**SPAB13F** Romanticism

Prerequisite: SPAA01

**SPAB19Y** Survey of Spanish Literature II

Prerequisite: SPAA01

**SPAB22S** History of the Spanish Language II

Prerequisite: SPAB12

**JSDB24F** Golden Age Drama

Exclusion: (SPAB24)

**SPAB25S** Golden Age Prose

Prerequisite: SPAB03

**SPAB27S** The Poetry and Theatre of Garcia Lorca

**SPAB29F** Spanish American Literature: The Short Story

Prerequisite: SPAA01

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**Statistics**

Staff member responsible for curriculum: M. Evans

Probability and statistics have developed over a period of several hundred years as attempts to quantify uncertainty. With its origins in modelling 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.

STAB52F and STAB57S serve as an introduction to the discipline. These courses are part of the Mathematics Specialist and Major Programmes. The C-Level Courses build upon the introductory material to provide a deeper understanding of statistical methodology and of its practical implementation.

STAB52F Probability and Statistics I

STAB57S Probability and Statistics II

STAC42S Multivariate Analysis

STAC67F Regression Analysis

For further information see under Mathematics.

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**Women's Studies**

**Major Programme in Women's Studies**

**Supervisor:** C. Bertrand-Jennings (284-3151)

The Major Programme in Women's Studies provides an interdisciplinary perspective on women in the past and present in various societies and cultures. It is designed to acquaint students with the critical concepts and methodologies used to examine the role and significance of women within any field of study. Students may complete the programme by selecting six women's studies courses, and they should select an emphasis either in the humanities or in the social sciences. In many cases students will be able to combine a major in women's studies with a major in one of the College's disciplines. However, because of the wide range of possibilities for anyone planning a double major, students are strongly urged to consult the Supervisor of Studies early and regularly.

The Major Programme in Women's Studies with an emphasis in the Humanities

(see also note 1 below.)

Students must select six FCEs as follows:

1. JHSA01Y Introduction to Women's Studies
2. 3 FCEs from list A
3. 1.5 FCEs from list B
4. JHSC01H Senior project in Women's Studies

The Major Programme in Women's Studies with an emphasis in Social Sciences

(see also note 1 below.)

Students must select six FCEs as follows:

1. JHSA01Y Introduction to Women's Studies
2. 3 FCEs from list B
3. 1.5 FCEs from list A
4. JHSC01H Senior project in Women's Studies

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**Courses Not Offered in 1983-84**

**STAC52S** Experimental Design

Exclusion: PSY908

Prerequisite: STAB57

---

**List A**

*ENG24F* Women Poets
*FRE208F/S* Images of Women in French Literature
*FRB28F/S* Women's Consciousness in French Literature
*HIS10F/S* Women from the Renaissance to the Present

**List B**

*HUMB28Y* Women in the Major Religions
*HUMB26F/S* Women Artists in Society
*HUMB21F/S* Women in Ancient Greece
*HUMB24Y* Feminism and Literary Considerations
*LIN228F* Language and Sex
*PHL905F/S* Social Issues
List B

ANTB15Y Biological Anthropology
ANTB30Y Introduction to Social Organization
ANTB40Y Anthropological Demography
ANTB54Y Anthropology of Sex
ANTC1YY Anthropology of Women
ANTC12F Social Behaviour of Non-Human Primates
PSYB10F/S Introduction to Social Psychology
PSYB22S Socialization Process
SOCB03F/S Sociology of the Family as a Group
SOCB09S Sociology of the Family as an Institution
SOC10F/S Sex, Self and Society
SOC24F/S Changing Family Life in Canada
SOC29F/S Sociology of Aging
SOC29F/S Family and Family Form

Note: All courses with an * have a prerequisite. Students should nonetheless check all the courses for prerequisites. In some cases, JHSA01Y may be substituted for another prescribed course. Please see instructor and supervisor of studies.

JHSC01H Senior Project in Women’s Studies
A research project chosen by the student and approved by the supervisor of Women’s Studies, and supervised by one faculty member. After the topic has been approved, a second reader will be appointed.
- The student will write a substantial essay or give a major presentation on an approved topic in Women’s Studies.
- The course is designed for students completing the Major Programme in Women’s Studies and is normally taken after completion of ten full-course equivalents. Students are advised to design a project in an area in which they have already done some concentrated study and, where possible, to build upon work taken in previous courses.
- Arrangements with the faculty in Women’s Studies and the supervisor must be made by the student before the end of the pre-registration period in the spring. Prerequisite: Open to students majoring in Women’s Studies, who have already completed 10 FCEs.

Session: Winter Day

JHSA01Y Introduction to Women’s Studies
Women and their roles and relationships in various societies. Taught by approximately fifteen faculty members representing about eleven disciplines in the Humanities and Social Sciences. The course provides an overview of the problems investigated by specialists in women’s studies and teaches how to use the methodologies of a range of disciplines to explore these problems.
- Areas for discussion may include women and mythology, women and power, women’s roles in the family, and women and literature. Among the particular topics are: the origins of misogyny; sexual stereotyping; poetry and propaganda; and the family - myth and reality. A detailed bibliography will be distributed at the first session.

Lecture and discussion with occasional seminars.
Session: Winter Day
Co-ordinator: D. James
### Summer Session Courses, 1983

**Monday 16th May:**
- Classes for "H" and "Y" courses begin

**Thursday 30th June:**
- Classes for "A" and "F" courses end

**Monday 4th July:**
- Classes for "B" and "S" courses begin
- Classes for "Y" and "H" and "S" courses end

**Key:** MTWRF: days of the week with R as Thursday

Tutors may be given in addition to the lecture times given below. They will normally be given on the same night except as noted below.

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<tr>
<th>Course No.</th>
<th>Course Title</th>
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**Supervised Reading & Research Courses**

Supervised Reading & Research courses are available through the summer as long as previous permission of a member of faculty has been obtained.

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**Scarborough Language Institute**

Intensive summer French courses are offered in the second term at all levels.

For further information please refer to Scarborough Language Institute Information Package (available in room H331A).

- FREA06B Introductory French: TBA
- FREA07S Elementary Conversation I: TBA
- FREA10B Elementary French: TBA
- FREA17S Elementary Conversation II: TBA
- FREB06B Language Practice I: TBA
- FREB07S Intermediate Conversation I: TBA
- FREB10B Language Practice II: TBA
- FREB17S Intermediate Conversation II: TBA
- FREB33S Workshop in Modern French Theatre: TBA
- PREO08S Language Practice III: TBA
- PREC10B Advanced French: TBA

**Stratford Summer Seminars (non-credit)**

For further information please contact Mrs. Lois Pickup, 284-3185

**English Writing Skills**

To be announced.
### Winter Session Evening Courses

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**Registrar's Office**
- Records (Registration, transcripts, etc.) 284-3127
- Timetable, classroom allocation, examinations, etc. 284-3300
- Student Services 284-3225
- Registrar 284-3266

**Residence Office**
- Office 284-3174
- Dean of Students in Residence 284-3210

**Riding Stables**
- 282-5809

**Security Desk**
- (Including lost and found) 284-3308

**Social Sciences Division**
- Receptionist 284-3137
- Chairman's Office 284-3149

**Student Councils**
- Scarborough College Student Council (S.C.S.C.) 284-3135
- U of T S.A.C. desk 284-3219

**Student Services Office**
- 284-3292

**Teaching-Learning Unit**
- 284-3181

**Writing Laboratory**
- 284-3398
### 1983 Calendar

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