



Academic Calendar
2004 – 2005

Academic Calendar 2004–2005

Undergraduate and Graduate Programs



The Forty-First Academic Year

Nunc cognosco ex parte

MISSION STATEMENT

Trent University aspires to be Canada's outstanding small university, known for its commitment to liberal undergraduate education in the humanities, social sciences and natural sciences and to the centrality of the individual student. Within a collegial setting the University offers undergraduate and graduate programs, both traditional and inter-disciplinary, which seek to advance learning through the creative interaction of teaching and research of the highest quality.

Office of the Registrar
Blackburn Hall
Trent University
1600 West Bank Drive
Peterborough, Ontario
K9J 7B8

Phone: (705) 748-1215 • Fax: (705) 748-1629

E-mail: liaison@trentu.ca

Web: www.trentu.ca

Published by Trent University, Peterborough, Ontario

2004

Finding Yourself at Trent

2004-2005 signals the beginning of another academic year when Trent students will be able to expand their intellectual horizons, meet new friends and participate in the life of the University community.

The new school year will also mark a number of key milestones in Trent's history. Peter Gzowski College will officially open, providing students with access to new teaching and learning space within a traditional integrated residential college setting. The Chemical Sciences Building will be ready for its first full year of activity, giving students and faculty access to world class chemistry labs and research space, and a new Water Quality Centre. And the University community will continue its participation in a variety of festivities celebrating the 40th anniversary of the founding of Trent.

This anniversary year follows another very successful academic year in which three national surveys recognized Trent as a leader in teaching and research. In 2003-04, the *Globe and Mail* ranked Trent number one for "quality of education" based on student responses. In its ranking of Canada's university innovation leaders the *National Post* ranked Trent "Undergraduate Research University of the Year." The annual *Maclean's* university edition placed Trent number one in Ontario among primarily undergraduate universities.

Adding to our institution's reputation is our dedicated professoriate. Trent professors continue to excel in their fields and to receive national recognition for their accomplishments. Trent's faculty are consistently awarded significant research grants from national and provincial agencies, many of which provide opportunities for students to engage directly in research with faculty. We are also pleased to welcome to Trent this year three new Canada Research Chairs, who will develop programs in Archaeological Studies, Aboriginal Arts and Literatures, and Cultural Studies.

Beyond these important achievements, the focus of Trent University remains centred on the needs of the individual student.

The academic calendar is one of your essential tools to allow you to explore course offerings and to develop a plan to meet your academic and career goals. It highlights existing and new academic programs, such as the Trent degree program in Forensic Science in partnership with Fleming College. Whether it be interdisciplinary studies or a professional program, the calendar can assist you to make informed choices about your study options. I encourage you to review the content carefully and to meet with an academic advisor to discuss your course selections. The more familiar you are with your academic options and personal interests, the more faculty and staff will be able to help guide you on your way.

Providing a foundation for the personal and professional development of our students is central to our University's mission. I know from talking with Trent students that they are very dedicated to succeeding in their academic studies and concerned about their future.

Recent employment surveys demonstrate that two years after graduation 96.9 per cent of Trent graduates were employed. The results confirm what we know – a university degree is a key determinant in long-term quality of life, personal growth, higher salaries, employment choice, job satisfaction and a diverse career path.

By discussing your academic plan with your friends, family and Trent's professors you can shape your future. I encourage you to fully consider the options that Trent University can provide you – a place to grow as a person; a place to find yourself.



Bonnie M. Patterson
President and
Vice-Chancellor

Bonnie M. Patterson

International Development Studies	140
International Studies (see Global Studies)	
Latin (see Ancient History & Classics)	
Mathematics	146
Modern Languages & Literatures	151
Native Management & Economic Development	161
Native Studies	162
Nursing	169
Philosophy	174
Physics	179
Political Studies	183
Psychology	188
Science	196
Sociology	196
Statistics (see Mathematics)	
Women's Studies	201
Special Programs & Opportunities	206
Community-Based Education Program	206
Degree Completion Programs	207
Diploma Programs	209
Emphases	210
International Educational Opportunities	220
Joint Programs with Fleming College	222
Oshawa and Part-Time Studies	224
Special Concentration Programs	225
Specializations	226
Year Abroad Programs	226
Admissions	227
Registration	237
Fees	240
Financial Aid and Recognition of Academic Excellence	250
Residence	276
Academic Support Services	281
Student Services	286
Graduate Calendar	292
Personnel and Contact Information	
Board of Governors, Officers and Administrative Personnel	352
Academic Staff	354
Index	359
Directory	366
Maps	368

TABLE OF CONTENTS

Welcome to Trent

Message from the President	2
About Trent	5
Using the Calendar	6
Goals, Objectives, Rights and Responsibilities	6
University Diary	7

Undergraduate Calendar

Undergraduate Studies at Trent	12
Academic Regulations	12
Degree Requirements	22
Programs	24
Notes	24
Administrative Studies (see Business Administration)	
Ancient Greek & Roman Studies (see Ancient History & Classics)	
Ancient History & Classics	24
Anthropology	29
Biochemistry & Molecular Biology	37
Biology	38
Business Administration	49
Canadian Studies	55
Chemical Physics	63
Chemistry	64
Comparative Development Studies (see International Development Studies)	
Computer Science/Studies	69
Computing & Physics	76
Cultural Studies	76
Economics	84
Education	89
Consecutive Bachelor of Education Program	89
Queen's-Trent Concurrent Teacher Education Program	93
English Literature	96
Environmental & Resource Science/Studies	104
Environmental Chemistry	115
Forensic Science	116
French Studies (see Modern Languages & Literatures)	
Geography	119
German Studies (see Modern Languages & Literatures)	
Global Studies	127
Greek (see Ancient History & Classics)	
Hispanic Studies (see Modern Languages & Literatures)	
History	131
Indigenous Environmental Studies	139

ABOUT TRENT

Trent University is located in Peterborough, Ontario, an hour and a half northeast of Toronto and about three hours from Ottawa. The University's main campus, the Symons Campus sits on a 580-hectare property, much of it preserved as nature area, along both banks of the Otonabee River at the northern edge of the city. Currently, the University also has a campus in downtown Peterborough and one in Oshawa in partnership with the University of Ontario Institute of Technology and Durham College.

Trent was born out of years of planning by public-spirited citizens of Peterborough. An Academic Planning Committee and a Campus Planning Committee were formed after T.H.B. Symons was appointed president-designate in 1961, and the University was formally created by the Ontario Legislature in April, 1963. Trent opened its doors to its first students in September 1964. In 1967, the late Leslie M. Frost, former Premier of Ontario, was elected first Chancellor of the University. The University was admitted to full membership in the Association of Colleges and Universities of Canada in 1968.

The University opened with two downtown residential colleges and a teaching and administrative complex. The core of what is now the Symons Campus was donated by GE Canada, and has provided Trent with an uncommonly beautiful setting in which to develop its facilities. Guided by master planning architect, the late Ronald J. Thom, a long-range plan was devised, and the Symons Campus is now home to three residential colleges, the main library, three science buildings, a child care facility and central administrative offices, along with recreational facilities which include an athletics complex, playing fields, tennis courts and rowing facilities. A new building, which includes the residential Peter Gzowski College and the First Peoples House of Learning, will open on the Symons Campus in summer 2004. In addition to the residential colleges, part-time study is offered through the Julian Blackburn College for continuing education.

Now in its forty-first teaching year, the University has approximately 5,900 undergraduates in the full-time program, and 1,380 part-time students.

In addition, there are 165 Master's degree candidates in the five fields in which the Master's degree is offered and 64 Ph.D. candidates in Canadian Studies, Native Studies and Watershed Ecosystems. Trent is also host to ten graduate students from Queen's University who are studying and conducting research at the University under the Trent/Queen's Co-operative Agreement.

Trent's Residential Colleges

Trent's residential colleges are central to the organizational structure of the University and to the intellectual and social experience of Trent students. All Trent students, whether they decide to live in residence or not, are affiliated with one of Trent's colleges. Over the years, each of the colleges has developed its own unique character, creating for Trent students a variety of distinct communities.

For students who choose to live in residence, the colleges provide all the resources and facilities necessary for comfortable on-campus living. For those who live off-residence, the colleges are focal points of social and cultural activity.

Interactive Learning

Trent University stresses the importance and the value of a liberal education, and is committed to ensuring, through a general emphasis on interactive learning, that each student has the opportunity to pursue fields of interest intensively and with ample access to the University's teaching resources. More than four out of every five classes at Trent have fewer than 25 students.

By design one of the smallest universities in Ontario, Trent has no ambition to compete in size, but rather in excellence.

Using the Calendar

The Trent University Calendar exists in two versions, this print version and an on-line version (www.trentu.ca/calendar). The contents of the two versions are identical.

The University reserves the right to make changes after the publication of this Calendar in a number of areas including:

- new faculty appointments or departures,
- courses, including withdrawal of courses listed as being offered,
- policies and procedures related to applications, admissions and registration for new and returning students,
- regulations,
- fee structure,
- academic schedule.

It is the responsibility of all students to familiarize themselves with the specific requirements for the degree or diploma which they seek. While advice and counselling are readily available, it is the students' responsibility to ensure that the courses in which they register fulfil their program requirements.

Goals, Objectives, Rights and Responsibilities

Statement of Goals

- To create a teaching, learning, research and living environment fundamentally committed to the promotion of free inquiry and expression.
- To offer a distinctive, excellent and continually evolving teaching program that responds to the needs of an increasingly diverse full and part-time student body.
- To provide educational programs which encourage students to think critically, creatively, constructively and to communicate their ideas effectively, as well as instilling a curiosity that engenders lifelong learning.
- To sustain and enhance opportunities for research and scholarly activity of the highest standard.
- To recognize and take advantage of our relatively small size, flexibility and experience to foster continually opportunities for creative interaction between academic departments and programs, teaching and research, colleges and academic activities and among our faculty, staff and students.
- To develop, in the pursuit of the advancement of learning, mutually beneficial partnerships and linkages with universities, colleges, schools and other public and private sector institutions and organizations, including our alumni.
- To encourage intellectual and cultural sensibility, adaptability, leadership, mutual respect, an ethical conscience, global (or international) perspectives and environmental sensitivity among all members of the Trent community.

Institutional Objectives

- Recruit and retain students from within and beyond Canada who will benefit from Trent's programs and who will contribute to university life.
- Provide an appropriate range and sequence of undergraduate courses and programs in the Humanities, Social Sciences, Natural Sciences and interdisciplinary fields to ensure a truly liberal education rooted in a strong institutional commitment to undergraduate teaching.
- Develop new opportunities for small group teaching and individualized learning.
- Create and sustain a range of interdisciplinary graduate programs that will reinforce the goal of liberal education, have linkages with our undergraduate departments and programs and provide all faculty with graduate teaching and research opportunities.
- Employ and retain excellent faculty who contribute actively to the advancement of learning through teaching, research, service and professional development.
- Employ and retain excellent academic and administrative support staff and ensure adequate opportunities for their professional development.
- Create and sustain an environment (intellectual, physical, fiscal and social) that advances learning through quality teaching and research while encouraging respect, tolerance and sensitivity.

Rights and Responsibilities

- Every member of Trent University – faculty, staff or student – has a right to freedom from discrimination in the University by another faculty, staff or student member because of race, ancestry, place of origin, colour, ethnic origin, citizenship, creed, sex, sexual orientation, age, record of offences, marital status, family status or handicap. (For details, please consult Trent's Policy on Discrimination and Harassment).
- Trent University recognizes its responsibility to those of its students, faculty and staff with special needs. It undertakes to ensure access to its academic programs and physical facilities, short of undue hardship, while protecting the academic integrity of the University.
- Trent University is a smoke-free institution.
- Trent University manages personal information of individuals in accordance with University policies on the protection of personal privacy.

Disclaimer

No liability shall be incurred by Trent University for loss or damage suffered or incurred by any student or third party as a result of delays, suspension or termination of services, courses or classes or other academic activities by reason of natural disasters, civil unrest or disobedience, labour disputes, work stoppages, strikes, lockouts, financial exigency, restrictive laws or governmental regulations, inability to procure materials or trades, weather, utility interruptions, damage to University property, or other happenings or occurrences beyond the reasonable control of Trent University.

University Diary

Summer Session 2004

(For Summer session deadlines, see chart p. 10)

May 7*	Friday	Final date for receipt of grades for incompletes and Letter of Permission courses for those planning to convocate on May 28 * 3 weeks before convocation
24	Monday	Statutory Holiday: "Victoria Day"
27	Thursday	Convocation
28	Friday	Convocation Final date for payment of deposit against residence fees by continuing students
June 1	Tuesday	Final date for receipt of applications and supporting documentation for full-time admission to Trent University
11	Friday	Final date to request Summer session Letters of Permission
25	Friday	Final date for receipt of grades for incompletes from the Fall/Winter session
July 1	Thursday	Statutory Holiday: "Canada Day"
12	Monday	Final date for grade appeals for full and Winter half courses Final date for receipt of appeals against academic penalties
Aug. 2	Monday	Statutory Holiday: "Civic Holiday"
9	Monday	Final date to request Fall/Winter session Letters of Permission Final date for receipt of applications, registration forms and supporting documentation from new and re-admit part-time applicants for admission to the University Deadline for Official Registration for continuing students First instalment of fees is due for all students (under review)

FALL/WINTER SESSION 2004–2005**Fall Session 2004**

Sept	TBA	First instalment of fees is due
6	Monday	Statutory Holiday: "Labour Day" Arrival of new students
7	Tuesday	Introductory Seminar Week begins
10	Friday	Final date for new student registration, without late fee Final date for receipt of Application for Degree/Diploma Assessment for Fall eligibility
12	Sunday	Arrival of returning students
13	Monday	Classes begin Beginning of formal course change period
17	Friday	Final date for full-time re-admit and transfer students to register, without late fee
20	Monday	Final date for rebate on college fees for students transferring from full to part-time status
23	Thursday	Final date for Summer session appeals Final date for receipt of grades for incompletes and Letter of Permission courses from Summer session Final date for receipt of applications for "Returning Full-time, New and Returning JBC Student bursaries"
24	Friday	Faculty Board Meeting
28	Tuesday	Meeting of the Senate
Oct. 1	Friday	Final date for registration with late fee Final date to change or add Fall half courses Final date to change or add full courses without late fee Final date for students to notify the Office of the Registrar of their wish to observe their cultural or religious holidays during scheduled examination periods
11	Monday	Statutory Holiday: "Thanksgiving Day"
22	Friday	Faculty Board meeting
23	Saturday	Classes end
25	Monday	Residential Reading and Laboratory Week begins
30	Saturday	Annual Fall Open House
Nov. 1	Monday	Classes resume Final date to change or add full courses with late fee
2	Tuesday	Meeting of the Senate
12	Friday	Final date for withdrawal from Fall half courses without academic penalty
19	Friday	Final date to request Letters of Permission for courses beginning January, 2005
Dec. 3	Friday	Faculty Board meeting
7	Tuesday	Meeting of the Senate
9	Thursday	Last day of classes
10	Friday	Final date for receipt of applications and supporting documentation from new and re-admit part-time applicants for admission to the University for Winter half courses Scheduled mid-term test and Fall half course final examination period begins (Saturday exam days included)
22	Wed.	Mid-term test and Fall half course final examination period ends, 10:30pm
23	Thursday	Winter Vacation and Reading Period begins College residences close
25	Saturday	Statutory Holiday: "Christmas Day"
26	Sunday	Statutory Holiday: "Boxing Day"

Winter Session 2005

Jan. 1	Saturday	Statutory Holiday: "New Year's Day"
9	Sunday	College residences open
10	Monday	Classes resume
19	Wed.	Second instalment of fees is due
21	Friday	Faculty Board meeting
25	Tuesday	Meeting of the Senate
28	Friday	Final date to change or add Winter half courses
		Final date to register in Winter half courses
Feb. 2	Wed.	Final date for submitting incomplete standing for Fall half-courses
4	Friday	Final date for receipt of Application for Degree/Diploma Assessment for Spring Convocation
		Final date for receipt of applications for all second term bursaries listed in Calendar
11	Friday	Faculty Board meeting
15	Tuesday	Meeting of the Senate
		Final date for withdrawal from full Fall/Winter session courses without academic penalty
19	Saturday	Classes end
21	Monday	Residential Reading and Laboratory Week begins
28	Monday	Classes resume
Mar. 11	Friday	Faculty Board meeting
		Final date for withdrawal from Winter half courses without academic penalty
14	Monday	Final date for appeals for Fall half courses
15	Tuesday	Meeting of the Senate
TBA		Deadline for application for continuing students seeking residence
Mid-March		March Break programs for applicants.
25	Friday	Statutory Holiday: "Good Friday"
27	Sunday	Statutory Holiday: "Easter Sunday"
Apr. 8	Friday	Final date for full-time and part-time continuing students to early register without late fee
		Application deadline to transfer from part-time to full-time studies
		Faculty Board meeting
		Classes end
12	Tuesday	Meeting of the Senate
13	Wed.	Examinations begin for Winter half and full courses
29	Friday	Examinations end for Winter half and full courses, 10:30 p.m.
		Final date for application for transfer between colleges for students not seeking residence

Summer Session 2005 (For Summer session deadlines, see chart p. 10)

May 6*	Friday	Final date for receipt of grades for incompletes and Letter of Permission courses for those planning to convocate on May 28
		*3 weeks before convocation
23	Monday	Statutory Holiday: "Victoria Day"
27	Friday	Final date for payment of deposit against residence fees by returning students
June 1	Wed.	Final date to request Summer session Letters of Permission
		Final date for receipt of applications and supporting documentation for full-time admission
2	Thursday	Convocation
3	Friday	Convocation
22	Wed.	Final date for receipt of grades for incompletes from the Fall/Winter session
July 1	Friday	Statutory Holiday: "Canada Day"
11	Monday	Final date for grade appeals for full and Winter half courses
		Final date for receipt of appeals against academic penalties
Aug. 1	Monday	Statutory Holiday: "Civic Holiday"
8	Monday	Final date to request Fall/Winter session Letters of Permission
		Final date for receipt of applications, registration forms and supporting documentation from new and re-admit part-time applicants for admission
		First instalment of fees is due for all students (under review)
		Deadline for Official Registration for continuing students

Important Deadlines

Summer Session Deadlines 2004

	8 week term	12 week term	6 week term
Final date for receipt of applications for admission or re-admission with supporting documentation	April 15	April 15	June 14
Final date for all students to register without late fee	April 16	April 16	June 18
Classes begin	April 26	April 26	July 5
Final date for all students to register with late fee. Final date to add courses	May 5	May 5	July 5
Final date for withdrawal	May 26	June 9	July 21
Classes end	June 23	July 23	August 11
Examination period begins*	June 23	July 28	August 13

* Students are advised to consult the course description for the exact date of their final examination.

Summer Session Deadlines 2005

	8 week term	12 week term	6 week term
Final date for receipt of applications for admission or re-admission with supporting documentation	April 13	April 13	June 15
Final date for all students to register without late fee	April 15	April 15	June 17
Classes begin	April 25	April 25	July 4
Final date for all students to register with late fee. Final date to add courses	May 6	May 6	July 5
Final date for withdrawal	May 26	June 9	July 21
Classes end	June 24	July 22	August 12
Examination period begins*	June 24	July 22	August 12

* Students are advised to consult the course description for the exact date of their final examination.

Note: Where a deadline falls on a weekend, the following Monday will apply. Please consult the Summer session brochure, available through Julian Blackburn College, for specific dates for half-courses offered in the above terms.

Academic Calendar 2004–2005



Undergraduate Studies

UNDERGRADUATE STUDIES AT TRENT

Trent University has a strong commitment to undergraduate studies. We offer a wide range of undergraduate programs, both traditional and interdisciplinary, in the Humanities, Social Sciences and Natural Sciences (see pages 24–205). We also offer a number of special opportunities for our students to extend their learning experience beyond the boundaries of their disciplines and of the University itself (see pages 206–226). In our teaching we stress the importance of close interaction between faculty and students through small group contact and individualized learning.

ACADEMIC REGULATIONS

Course Assessment

Course Credits

Trent University offers single-, double- and half-credit courses. Double-credit courses are identified by the suffix "D" and half-credit courses by the suffix "H": "H/FA" for a half-credit course offered in the Fall session, "H/WI" for a half-credit course offered in the Winter session, and "H/FW" for a half-credit course offered throughout both sessions. (For quarter- and three-quarter credit courses in the Consecutive Bachelor of Education program see p. 89).

Students are granted credit for every course for which a passing final grade has been assigned. Please note:

- a maximum of 3 credits with D grades (50 to 59.9) may be counted towards a degree
- a maximum of 1 credit with a D grade (50 to 59.9) may be counted towards a major or minor

Course Repeats

Only a course for which a final grade of D (50–59.9) or F (0–49.9) has been assigned may be repeated. All attempts will appear on students' academic records, but no more than one attempt will be assigned credit.

Grading Criteria

The final grade in a course is based on at least some of the following criteria:

- in-term oral and written work
- in-term or mid-year tests or examinations
- final examinations
- practicums and community-based projects

Normally, at least 25% of the grade in a course offered in the regular academic session must be determined and made available by the drop date. No final examination is worth more than 50% of the final grade. Instructors are encouraged not to base final grades entirely on tests and examinations.

Numerical Equivalents of Letter Grades

A+ 90 – 100	B+ 77 – 79	C+ 67 – 69	D+ 57 – 59	F 0 – 49
A 85 – 89	B 73 – 76	C 63 – 66	D 53 – 56	
A- 80 – 84	B- 70 – 72	C- 60 – 62	D- 50 – 52	

Course Syllabuses

Each course has a syllabus which includes the method of assessment and the grading scheme.

In some cases an instructor may judge that certain regulations are inappropriate for a particular course, and may be granted a formal exemption from them by the Dean of Arts and Science. Any such exemptions will be noted in the course syllabus.

The instructor reviews the syllabus with the students at the first class in the course. Any change thereafter in the grading scheme must be agreed to in writing by all students present at a subsequent class; at the class immediately following that one the revised section of the syllabus must be posted or otherwise communicated.

Final Examinations and Mid-year Tests

Scheduling

With the exception of laboratory examinations in the sciences, no in-class tests or final examinations which are worth more than 10% of the final grade may be held during the last two weeks of classes in the Fall or Winter session. In the Summer session the period during which in-class tests and examinations may not be held is the last two weeks for 12-week courses and the last week for 6- and 8-week courses.

The examination schedule is designed to avoid conflicts and to ensure that no student writes more than twice within a 24-hour period. In the case of take-home examinations or tests, the instructor assigns a submission date before the end of the examination period.

The writing time allotted is the same for all students in a course (with the exception of Special Needs students; see below).

Students who wish to observe cultural or religious holidays during an examination period must notify the Office of the Registrar in writing by the final Friday in September. If it is possible, scheduling will be adjusted to accommodate these dates. If it is not possible, students must submit a written request to their instructors for alternative arrangements, explaining the reason for the request and including supporting documentation.

Special Needs examinations and tests are available for students who require extra time or other assistance. All requests must be made through the Special Needs Office at least two weeks before the examination or test, and must be supported by appropriate documentation from a qualified health care professional.

Student Identification

Students must bring their Trent student cards to all examinations. Cards must be visible to the Examination Invigilator when students sign the printed attendance lists provided. Students who fail to produce a valid student card must report to the Dean's Office, with their card, by 1 p.m. on the next working day. Students whose names are not printed on an attendance list are not registered in the course. They must report to the Office of the Registrar by 1 p.m. on the next working day to clarify their status. Failure to do so may result in a grade of zero for the course.

Missed Examinations

Students who miss an examination for reasons beyond their control should consult with their instructor immediately about the possibility of alternate arrangements. If such arrangements are not possible, students may petition for aegrotat standing (see below for the requirements for aegrotat standing).

Unsatisfactory Examination Results

There are no supplemental examinations. The only options available to students who are dissatisfied with the result of an examination are to appeal the final grade in the course (see Appeals of final grades below) or to repeat the course, if the final grade is D or F (see Course credits above).

Availability of Past Examinations

The Bata Library and Durham College (Oshawa) Library keep on reserve copies of all examinations from the previous three years in currently offered courses or a reasonable sampling of the types of questions asked.

Student Access to Graded Examination Papers

Graded examination papers are the property of the University and are not intended to be available to students. They may be seen by students only if a formal appeal of a final grade has been unsuccessful (see Academic Appeals below). Requests to see an examination paper must be made in writing to the Office of the Registrar. There is a fee for each request.

Mid-year Review

Mid-year marks are available through My Trent! in January to help students assess their academic performance; they do not represent official grades, and mid-year grades do not appear on any formal document.

Official Final Grades

Final grades are official thirty days after they have been released by the Office of the Registrar. If errors in the calculation or recording of grades come to light after the grades have been released, all affected grades may be recalculated and raised or lowered with the approval of the Dean. However, this process must be completed, and corrected transcripts must be issued, before the thirty day period has passed.

Grade Reports and Transcripts

Grades are available through My Trent! as soon as possible after the completion of the course. Grade reports are provided to students upon request at the completion of each session.

Official copies of academic transcripts are sent by the Office of the Registrar directly to other institutions only at the student's written request. A fee must be paid for each copy. Ten working days should be allowed for processing.

Transcripts and grade reports are not released for students who have an outstanding financial obligation to the University.

Difficulties with the Completion of Course Work

There are three options available to students who have difficulties with the completion of their course work for reasons beyond their control: if they cannot complete their course work before the end of session, they may petition for incomplete standing; if they cannot write the final examination in a course, they may petition for aegrotat standing; if they wish to withdraw from the course altogether, but have missed the deadline for withdrawal without academic penalty, they may petition for late withdrawal. These three options are described in detail below.

Incomplete Standing

Incomplete standing permits students to submit any remaining work in a course by a specified date after the end of the academic session. Failure by students to organize their workload is not considered adequate grounds for incomplete standing. A petition for incomplete standing must be made to the instructor, and approved by the chair, before the department or program deadline (if there is one), but in any case before submission of final grades to the Office of the Registrar.

The instructor specifies the deadline for submission of outstanding work and the grade which will be assigned if the deadline is not met. The latest possible deadlines for the submission of outstanding work are:

- February 28 for courses completed in the Fall session
- June 30 for courses completed in the Winter session
- September 30 for courses completed in the Summer session

Aegrotat Standing

Students may, if eligible, be exempted from writing the final examination in a course. A petition for aegrotat standing must be made to the instructor as soon as the relevant circumstances are known, and normally before the scheduled examination time. A petition for aegrotat standing must be made to the instructor, normally before the examination. An aegrotat standing is granted only if all required term work has been completed and the student has a passing average. Students are advised to familiarize themselves with the procedures for calculating aegrotat standing in the department or program involved.

Late Withdrawal

Late withdrawal is granted to students who have missed the deadline for withdrawal from courses without academic penalty but, for reasons judged to be compelling, have been unable to complete their course work. A petition for late withdrawal is made to the Committee on Undergraduate Standings & Petitions through the Senior Tutor as soon as possible and normally before the end of the academic session.

Academic Standing

Assessment Average

A student's academic standing is determined by a session average or by a cumulative average (see below). The cumulative average includes all courses for which a grade has been assigned including transfer credits and all attempted courses for all programs/degrees. The session average *includes all courses in the current session (Fall-Winter or Summer) for which a grade has been assigned excluding repeated courses with a lower grade.*

The initial assessment average is calculated at the end of the academic session in which students have completed the third credit in their program. It includes all courses for which a grade has been assigned since beginning the program. Thereafter, the cumulative and session averages are calculated at the end of each academic session.

Categories of Academic Standing

There are four categories of academic standing: good standing, probation, academic suspension and suspension – academic dishonesty. Regulations governing them differ, depending on whether the assessment averages are based on a full-time load (more than three credits) or a part-time load (three credits or less).

Good Standing

Full-time load: Students are in good standing if their session average is at least 60%.

Part-time load: Students are in good standing if their cumulative average is at least 60%.

Probation

Full-time load: Students are initially placed on probation if their session average is 50 – 59.9%, or if they are returning from academic suspension. If their session average is 60% or higher upon the next assessment, probation is lifted.

Part-time load: Students are initially placed on probation if their cumulative average is 50 – 59.9%, or if they are returning from academic suspension. If their cumulative average is 60% or higher upon the next assessment, probation is lifted. Otherwise probation continues as long as the session average is 50% or higher.

Academic Suspension

Full-time load: Students are suspended from the University for a year if their session average is less than 50%, or if they are on probation and it is less than 60%.

Part-time load: Students are suspended from the University if their initial assessment average is less than 50%; if their cumulative average thereafter falls below 50%, or if their session average while on probation is less than 50%.

Suspension – Academic Dishonesty

Students may be placed on suspension by the Dean for repeated violations of the Academic Dishonesty Policy. The first time penalties of "Suspension – Academic Dishonesty" are imposed, their duration will be for periods of up to one year. Subsequent penalties will be for periods of up to three years. Appeals of the Dean's decision should be made to the Special Appeals Committee. Students seeking support with an appeal should consult their senior tutor or seek advice from faculty members.

Procedures for Students on Probation or under Academic Suspension

Students who are placed on probation or under academic suspension are encouraged to discuss with their Senior Tutor the problems leading to their academic difficulties and any remedial action they might take. Students under academic suspension may appeal the decision to their Senior Tutor: they may request either permission to enrol in a limited number of courses or a change in their status from suspension to probation. If the Senior Tutor decides that the case requires a wider discussion, the appeal may be forwarded to the Committee on Undergraduate Standings & Petitions.

Dean's and President's Honour Rolls

All students who achieve an average of A- (80%) or better in their most recent session and have an overall cumulative average of B (75%) or better, will have their names placed on the Dean's Honour Roll.

All graduating students who achieve an overall cumulative average of A- (80%) or better will

have their names placed on the President's Honour Roll.

The names of graduating students who are eligible for the Dean's Honour Roll and/or the President's Honour Roll will be noted in the convocation program.

Academic Appeals

Appeals of Grades on Term Work

Appeals of grades on term assignments and tests are made to the course instructor and subsequently, if necessary, to the chair of the department or program. Students are advised to familiarize themselves with the appeals policy of the department or program involved.

Appeals of Final Grades

Appeals of final grades are made in writing to the Office of the Registrar. There is a fee for each appeal, refundable if the grade is raised. The grade of a student who is making an appeal cannot be lowered as a result of that appeal.

Only the following work may be reassessed in appeals of final grades:

- term work not returned to students before the submission of final grades to the Office of the Registrar
- final examinations

The deadlines for appeals of final grades are:

- September 23, 2004 for courses completed in the 2004 Summer session
- March 14, 2005 for courses completed in the 2004 Fall session
- July 11, 2005 for courses completed in the 2005 Winter session

Students are informed of the results of appeals of final grades as soon as possible after the appeal deadline, but, in any case, before the beginning of the next academic session after the appeal deadline.

Appeals of Academic Regulations

Students who believe that specific academic regulations have imposed undue hardship on them may petition the application of the regulations to the Committee on Undergraduate Standings & Petitions through their Senior Tutor.

Special Appeals

If all other levels of appeals or petitions have been exhausted and have been unsuccessful, students may make an appeal to the Special Appeals Committee through the secretary of the committee. Such appeals must be made within four weeks of receipt of the previous ruling, and must be in writing on the appropriate forms available from the University Secretariat in Bata Library. All decisions of the Special Appeals Committee are final and take effect when issued.

Academic Dishonesty Policy

Application

This policy applies to students registered in undergraduate courses in the Faculty of Arts and Science and graduate students registered in graduate programs at Trent University.

Terminology

In this policy, "department" is used to cover undergraduate departments, programs, and schools as well as graduate programs. "Chair" is used to cover chairs and directors of undergraduate departments, programs, and schools as well as directors of graduate programs. "Dean" is used to refer to the Dean of Arts and Science in the case of undergraduate students and to the Dean of Research and Graduate Studies in the case of graduate students.

Academic Honesty

All members of the University community share the responsibility for the academic standards and reputation of the University. When students submit work for academic evaluation and credit, they imply that they are the sole authors of the work. Clear and careful attribution of the words and ideas of others is an essential part of academic scholarship. Academic honesty is a cornerstone of the development and acquisition of knowledge and is a condition of continued membership in the University community.

Academic Dishonesty

Academic dishonesty, including plagiarism and cheating, is ultimately destructive of the values of the University. Scholarly integrity is required of all members of the University. Engaging in any form of academic dishonesty or misconduct in order to obtain academic credit or advantage of any kind is an offence under this policy.

Plagiarism

Plagiarism is the presentation of the words, ideas, images, data, or any other form of scholarly work of another person (including essays, theses, lab reports, projects, assignments, presentations, and posters) in a way that represents or could be reasonably seen to represent the work as one's own. Plagiarism covers a wide range of academic offences, from failure to acknowledge sources correctly to submitting materials downloaded from the world wide web.

Cheating

Cheating includes dishonest academic conduct or attempted dishonest academic conduct during tests or examinations or in the preparation of any other course work or in the presentation of credentials for admission to the University or one of its programs. Some common examples are:

- submitting one's own original student work for credit in two or more different courses, without the prior agreement of the instructors involved
- bringing aids, including electronic aids, that have not been authorized by the instructor into an examination or test
- impersonating another individual or colluding in an impersonation for an examination or test
- copying from another individual or knowingly permitting another individual to copy from one's test, examination paper, lab report, or assignment
- communicating in any way with another student during a test or examination
- purchasing from, or selling to, another any piece of work for submission, or facilitating the selling and purchasing of such material
- submitting any purchased material as one's own work
- falsifying or tampering with results in laboratory experiments or research assignments
- falsifying transcripts or tampering with documents used to make decisions about admissions to the University or one of its programs
- withholding transcripts or other required documents at the time of application to the University
- submitting false or misrepresentative medical certificates or other documentation in support of requests for concessions on academic work or deadlines

Students who have any doubt as to what might be considered academic dishonesty in a particular course should consult the instructor of the course to obtain appropriate guidelines.

Penalties

A student who has been found to have committed an academic offence will be subject to a penalty or penalties commensurate with the offence. Penalties may range from a reprimand to suspension from the University. Examples include the reduction of a mark on work submitted for evaluation, the requirement to submit another piece of work or to retake a test or examination, and a grade of "0 – Academic Dishonesty" on a student's transcript. For academic offences involving loss of marks, penalties more serious than a "0" on a piece of work submitted for evaluation will be imposed only by the Dean. The application of penalties imposed by the Dean will be overseen by the Registrar. In deciding on the appropriate sanction to be imposed for an act of academic dishonesty, consideration may be given to the following factors:

- the extent of the dishonesty
- whether the act in question was inadvertent or deliberate
- the importance of the work in question as a component of the course or program
- whether the student has been found to have committed any previous act of academic dishonesty
- whether the act in question was an isolated incident or part of repeated acts of academic dishonesty
- any other relevant circumstances

Procedures

Evaluation of work by course instructors: If an instructor has reason to believe academic dishonesty on the part of a student, the instructor will so inform the student within a reasonable time and invite the student to discuss the matter. If, after such discussion and reviewing the evidence, the instructor is satisfied that no academic dishonesty has occurred, no further action will be taken by the instructor unless new evidence comes to the attention of the instructor.

If, after such discussion or if the student fails to respond to the request for a meeting or does not attend a prearranged meeting, the instructor decides that academic dishonesty has occurred and decides that reduction of the earned mark on an assignment (including a test or examination) is appropriate, the instructor will provide the student with an Academic Dishonesty Form which records the reduced mark and the reason for it. The form, along with the documented evidence, will be filed at the department office. Filing the form constitutes the recording of an academic offence. If the student's name already appears on file at the department office for an incident of academic dishonesty, the student's name will be forwarded to the Office of the Dean. The instructor will explain to the student the consequences of having his/her name forwarded to the Office of the Dean. (See 4 below.) The student may appeal the decision of the instructor by writing to the chair of the department setting out the grounds for appeal within one week of notification of the instructor's decision. The Chair should respond to the student within one week of receiving the appeal.

If, after such discussion or if the student fails to respond to the request for a meeting or does not attend a prearranged meeting, the instructor believes that academic dishonesty has occurred that would warrant a grade of "0" on an assignment (including a test or examination) because of the severity of the academic dishonesty, the instructor will report the matter to the Chair. The Chair will notify the student in writing of the allegation and will invite the student to meet within a reasonable time. If the student does not respond to the request for a meeting or does not attend a prearranged meeting, the Chair will proceed to make a decision on the basis of the evidence before him/her. If, after reviewing the evidence, the Chair is not satisfied that academic dishonesty occurred, the Chair will inform the student in writing of his/her decision and no further action will be taken by the Chair unless new evidence comes to the attention of the Chair. If the Chair is satisfied that academic dishonesty occurred, the Chair will decide the appropriate penalty (up to and including a "0" in the piece of work) and inform the student in writing of his/her decision. In the latter case, the Chair will inform the student that his/her name, along with the documented evidence, will be placed on file in the department office. The Chair will also inform the student that his/her name will be forwarded to the Office of the Dean. The Chair will explain to the student the consequences of having his/her name forwarded to the Office of the Dean. (See 4 below.) The student may appeal the decision of the Chair by writing to the Dean setting out the grounds for appeal within two weeks of notification of the Chair's decision. The Dean should respond to the appeal within two weeks of receiving the appeal.

Conduct during examinations or tests: Where an allegation of academic dishonesty arises during a test or examination, the responsible invigilator will collect the available evidence and report the incident to the Chair of the relevant department. The Chair will notify the student in writing of the allegation and will invite the student to meet within a reasonable time. If the student does not respond to the request for a meeting or does not attend a prearranged meeting, the Chair will proceed to make a decision on the basis of the evidence before him/her. If, after reviewing the evidence, the Chair is not satisfied that academic dishonesty occurred, the Chair will inform the student in writing of his/her decision and no further action will be taken by the Chair unless new evidence comes to the attention of the Chair. If the Chair is satisfied that academic dishonesty occurred, the Chair will decide the appropriate penalty (up to and including a "0" in the test or examination) and inform the student in writing of his/her decision. In the latter case, the Chair will inform the student that his/her name, along with the documented evidence, will be placed on file in the department office. The Chair will also inform the student that his/her name will be forwarded to the Office of the Dean. The Chair will explain to the student the consequences of having his/her name forwarded to the Office of the Dean. (See 4 below.) The student may appeal the decision of the Chair by writing to the Dean setting out the grounds for appeal within two weeks of notification of the Chair's decision. The Dean should respond to the appeal within two weeks of receiving the appeal.

Applications to the University or one of its programs: Where the alleged academic dishonesty involves falsifying, misrepresenting, or withholding records for entry into the University or one of its programs, the Registrar will be informed. The Registrar will notify the student in

writing of the allegation and will invite the student to meet within a reasonable time. If the student does not respond to the request for a meeting or does not attend a prearranged meeting, the Registrar will proceed to make a decision on the basis of the evidence before him/her. If, after reviewing the evidence, the Registrar is satisfied that no academic dishonesty occurred, the Registrar will inform the student in writing of his/her decision and no further action will be taken by the Registrar unless new evidence comes to the attention of the Registrar. If the Registrar is satisfied that academic dishonesty has occurred, the Registrar will decide the appropriate penalty and inform the student in writing of his/her decision. A written record of the incident, along with the documented evidence, will be kept on file at the Office of the Registrar. The Office of the Dean will be notified. The Registrar will explain to the student the consequences of having his/her name forwarded to the Office of the Dean. The student may appeal the decision of the Registrar by writing to the Dean setting out the grounds for appeal within two weeks of notification of the Registrar's decision. The Dean should respond to the appeal within two weeks of receiving the appeal.

Notification to the Office of the Dean: The Dean will not proceed to consider a notice from the Chair or the Registrar of an incident of academic dishonesty by a student until after any appeal has been determined or the relevant appeal period has expired. If no appeal has been made or if the finding of academic dishonesty has been upheld, the Dean will review the matter to consider whether further penalties should be imposed. If the Dean decides to request a meeting with the student, the student will be invited to meet within a reasonable time. If the student does not respond to a request for a meeting or does not attend a prearranged meeting, the Dean will proceed to make a decision as to whether further penalties should be imposed on the basis of the evidence before him/her. Upon reviewing the evidence, the Dean will impose such further penalties as he/she sees fit, up to and including a grade of "0 – Academic Dishonesty" in any course in which that student is registered and has been found guilty of academic dishonesty. The notation "0 – Academic Dishonesty" will appear on the student's transcript. The Dean will inform the student in writing of his/her decision. The student may appeal a decision of the Dean to impose further penalties to the Special Appeals Committee within four weeks of notification of the decision of the Dean. The decision of the Special Appeals Committee is final.

If, subsequent to any occasion on which the Dean has awarded one or more grades of "0 – Academic Dishonesty" to a student, the Dean receives notice of a further incident of academic dishonesty by that student, the Dean will invite the student to meet within a reasonable time, but not until after any appeal has been determined or the relevant appeal period has expired. If the student does not respond to the request for a meeting or does not attend a pre-arranged meeting, the Dean will proceed to make a decision as to whether further penalties should be imposed on the basis of the evidence before him/her. Upon reviewing the evidence, the Dean will impose such further penalties as he/she sees fit, up to and including the standing "Suspension – Academic Dishonesty" for a period of up to one year. The notation "Suspension – Academic Dishonesty" will appear on the student's transcript. The Dean will inform the student in writing of his/her decision. The student may appeal a decision of the Dean to impose further penalties to the Special Appeals Committee within four weeks of notification of the decision of the Dean. The decision of the Special Appeals Committee is final.

If a student has been readmitted to the University after having served a "Suspension – Academic Dishonesty" penalty and subsequently is reported to the Office of the Dean for academic dishonesty, the Dean will invite the student to meet within a reasonable time, but not until after any appeal has been determined or the relevant appeal period has expired. If the student does not respond to the request for a meeting or does not attend a prearranged meeting, the Dean will proceed to make a decision on the basis of the evidence before him/her. Upon reviewing the evidence, the Dean will impose such further penalties as he/she sees fit, up to and including the standing of "Suspension – Academic Dishonesty" for a period of up to three years. The notation "Suspension – Academic Dishonesty" will appear on the student's transcript. The Dean will inform the student in writing of his/her decision. The student may appeal a decision of the Dean to impose further penalties to the Special Appeals Committee within four weeks of notification of the decision of the Dean. The decision of the Special Appeals Committee is final.

Students seeking support for an appeal should consult their senior tutor or seek advice from faculty members.

Assistance with the appeals procedure: For guidance on the appeals procedures at the University, please see the "Petitions and Appeals" section of the calendar.

Other allegations of academic dishonesty: Any other allegations of academic dishonesty may be made in writing to the Dean. The Dean will determine the appropriate procedure to be followed.

No record of dropped allegations: At any stage, if, after reviewing the evidence, the instructor, Chair, or Registrar decides that the allegations are not supported by sufficient evidence, no record of the incident will be kept on file at the offices of the department, Registrar, or Dean.

Withdrawal is not a stay of proceedings: A student's withdrawal from a course, program, or the University does not stay or prevent proceedings for academic dishonesty under this policy. Penalties for academic dishonesty determined under this policy will appear as appropriate on the student's record, including the student's transcript, despite any such withdrawal.

Graduation and Convocation

For students to graduate, Senate must confirm that they have successfully completed the academic requirements for their degree. Once they have graduated and are free of all financial obligations to the University, they are eligible to receive official transcripts, noting the successful completion of their degree, and to receive their degree or diploma at the Spring convocation ceremony.

In the year in which they intend to graduate, students must submit an Application for graduation form to the Office of the Registrar. The Office of the Registrar will assess whether the students are enrolled in the courses required to complete the academic requirements for their degree, and will inform the students by letter of the result of this assessment. A fee is charged for late applications. See the University Diary for deadlines.

Once grades have been processed, the names of all students who have successfully completed the academic requirements for their degree are submitted to Senate for approval at its September or May meeting.

Students who have successfully completed the academic requirements for their degree, but who are not free of financial obligations to the University, may participate in Convocation but will not receive their degree or diploma until their financial obligations are met.

Students who have successfully completed the academic requirements for their degree too late for Convocation will have their names submitted to the next appropriate meeting of Senate, and are eligible to receive their degree or diploma at the next Spring convocation ceremony, assuming that they are free of all financial obligations to the University.

Petitions and Appeals

Students who foresee difficulties completing their course work may petition for incomplete or aegrotat standing or for late withdrawal, depending on the circumstances. Students may appeal grades which they have received, regulations which have caused them undue hardships, the penalty of academic suspension, and penalties for academic misconduct. As a last resort, students may appeal the results of previous petitions or appeals through a special appeal.

The table below summarizes the procedures for petitions and appeals, indicating the appropriate situation for each ("why"), the persons responsible for dealing with them ("who") and the deadlines for submission ("when"). It is intended only as a convenient summary and should not be regarded as official; before pursuing any of these options, students should consult the appropriate section of the calendar where the official procedures and requirements are laid out in full.

Although the procedures outlined below have been designed to be as thorough and as humane as possible, there may be situations which are not adequately covered by any of them. In such cases students are strongly advised to consult their Instructor, the chair of their department or program, their Academic Advisor, their Senior Tutor, or the Dean of Arts and Sciences, as appropriate.

Why	Who	When
Petitions Concerning Incomplete Work		
• Incomplete Standing (see p. 14) You will be unable to complete your course work by the end of term.	Course Instructor (with the approval of the chair)	Before department or program deadline (if there is one) but in any case before submission of final grades
• Aegrotat Standing (see p. 14) You will be unable to write the final examination.	Course Instructor	Normally before final examination
• Late Withdrawal (see p. 14) For compelling reasons, you have been unable to complete your course work, and it is too late for withdrawal without academic penalty.	1. Senior Tutor 2. Committee on Undergraduate Standings & Petitions (if necessary)	After date for withdrawal without academic penalty but normally before the end of the academic session
Appeals of Grades and Regulations		
• Term Work (see p. 16) You wish to query a grade in a term assignment or test.	1. Course Instructor 2. Chair (if necessary)	Before department or program deadline (if there is one) but in any case before submission of final grades
• Final Grades (see p. 16) You wish to query a grade in a final examination or in term work which was not returned to you before the submission of final grades.	Office of the Registrar	See deadlines in calendar (p. 16)
• Academic Regulations (see p. 16) You wish to query certain academic regulations which have caused you undue hardship.	Committee on Undergraduate Standing & Petitions (through Senior Tutor)	Consult Senior Tutor

Continued on next page

Why	Who	When
Appeals of Academic Suspension (see p. 15)		
You have discussed with your Senior Tutor the problems leading to your academic difficulties and the appropriate remedial actions, and you wish to have your academic suspension reduced to partial academic suspension or to probation.	1. Senior Tutor 2. Committee on Undergraduate Standings & Petitions (if necessary)	By July 15, or within two weeks of receiving notice
Appeals of Penalties for Academic Misconduct (see p. 20)		
You wish to have a penalty (ranging from a reprimand to expulsion from the University) for academic conduct withdrawn.	1. Chair (appeal of Course Instructor's ruling) 2. Dean of Arts and Science (appeal of Chair's ruling) 3. Dean of Arts and Science (appeal of Registrar's ruling) 4. Special Appeals Committee (appeal of Dean's ruling)	Within 1 week of imposition of penalty Within 2 weeks of imposition of penalty Within 3 weeks of imposition of penalty Within 4 weeks of imposition of penalty
Special Appeals (see p. 16)	Special Appeals Committee	Within 4 weeks of receipt of previous ruling
You wish to appeal the result of any previous appeals or petitions.		

DEGREE REQUIREMENTS

Trent University offers the following degree programs:

Bachelor of Arts (Honours and General)	Bachelor of Science in Nursing
Bachelor of Science (Honours and General)	Consecutive Bachelor of Education
Bachelor of Business Administration (Honours)	

The University encourages students in the Bachelor of Arts and Bachelor of Science programs to plan an Honours degree. The Honours degree is the basic qualification for entry to graduate programs and generally enhances employment opportunities.

Requirements for all Bachelor's degrees

For requirements for the Consecutive Bachelor of Education program see p. 89. Requirements for all other programs consist of:

1. requirements for specific programs as outlined in the Academic Programs section of this calendar
2. at least three credits leading to majors in different disciplines
3. no more than seven 100-level credits
4. a minimum grade of C- (60%) in a required introductory course for the degree, if there is one
5. a maximum of three credits with D grades (50 to 59%)
6. a maximum of one credit with a D grade (50 to 59%) in a course required for a major

	Honours Arts & Science	Honours Business Admin.	General Arts & Science	Nursing
7. total credits required	20	20	15	20
8. minimum cumulative average required in Honours program *see page 51	65	70*	n/a	n/a
9. minimum credits required beyond the 200-level – in some programs 200- and 300-level courses are equivalent	7	7	4	4
10. maximum credits unsuccessfully attempted in Honours program – includes D (50 to 59%) grades not for credit and F grades	6	6	n/a	n/a
11. maximum credits allowed in a discipline *see Business Administration program for details	13	n/a*	8	n/a
12. maximum credits which can be required in each discipline of a joint-major	8	8	6	n/a

Notes

- The minimum cumulative average required for Honours (see 8 above) includes only courses for which credit has been earned: neither F grades nor D grades beyond the maximum allowed for credit (see 5 and 6 above) are included in the average. Students in the Honours program who do not maintain this average, or who exceed the maximum of six credits unsuccessfully attempted, will be awarded a General degree, assuming they meet the requirements for the degree.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.

Requirements for a Bachelor of Science degree

Some programs lead to a B.Sc. degree. Other programs lead either to a B.A. or a B.Sc. degree, depending on the courses taken; for these programs, students must indicate on the Application for Graduation form if they wish to be awarded a B.Sc.

B.Sc.

Biochemistry & Molecular Biology
Biology
Chemical Physics
Chemistry
Computing & Physics
Environmental Chemistry
Forensic Science (Honours only)
Mathematics
Physics

B.A./B.Sc.

Anthropology
Computer Science
Computer Studies (joint-major only)
Economics
Environmental & Resource Science
Geography
Psychology

Fourteen science credits (including one in Mathematics) are required for the Honours degree, eleven (including one in Mathematics) for the General degree. For the B.Sc. programs, all courses are science courses. For science courses in the B.A./B.Sc. programs, see individual entries.

Requirement for a minor

Students who have fulfilled the requirements for a single-major Honours degree may apply to the Office of the Registrar for a minor in a second subject, if they have met the requirements for a joint-major General degree in that subject. In departments and programs which do not offer a joint-major General degree, minors can be arranged. See individual department and program entries for details.

Programs

Notes

- **Explanation of Course Identification**

Courses are identified by three or four digits. Generally, the first digit indicates the year in which the course is normally taken. Double-credit courses are indicated by the suffix "D" and half-credit courses by the suffix "H": "H/FA" for a half-credit course offered in the Fall session, "H/WI" for a half-credit course offered in the Winter session, and "H/FW" for a half-credit course offered throughout both sessions. (For quarter- and three-quarter credit courses in the Consecutive Bachelor of Education program see p. 89).

- **Animal Care Course**

This non-credit course deals with the ethical principles, legal aspects and practical considerations of animal research. The course has no prerequisites and is mandatory for all students whose course work or research involves handling and/or experimentation with live vertebrate animals. The course will be offered once in the academic year at the beginning of the Fall session. For details of when the course will be offered, contact the department of Biology, Chemistry, Psychology or the Environmental & Resource Science/Studies program.

Administrative Studies

See Business Administration

Ancient History & Classics

Telephone: (705) 748-1011 ext. 1814

Fax: (705) 748-1131

E-mail: ahc@trentu.ca

Web: www.trentu.ca/ahc

Chair of the Department

To be named

Professors

K. H. Kinzl, Dr. Phil. (Vienna); **I. C. Storey**, B.A. (Univ. Trin. Coll.), M.A., Ph.D. (Toronto), M.Phil. (Oxford)

Associate Professor

D. F. R. Page, B.A., Dip. Ed. (Sheffield)

Assistant Professor

J. P. Moore, B.A. (Wilfrid Laurier), M.A., Ph.D. (McMaster)

The department of Ancient History & Classics deals with the cultures of the Greeks and Romans, which are of fundamental importance to our own. They are different from each other, foreign to our own, yet accessible to us; unlike most other early cultures, they are very well documented in literary and artistic forms that have profoundly influenced subsequent cultures and are still highly meaningful to us. They have inspired thinkers, writers and artists through the ages, and continue to do so today. We must therefore know them in order to understand ourselves; if we want to understand our cultural "roots" we have to study the classical cultures. In pursuit of this aim, the department of Ancient History & Classics at Trent offers a wide range of courses in English translation on the history, literature and civilization of the ancient Greek and Roman world, as well as courses in Greek and Latin.

Notes

- Reading courses (390 and 490 designation; normally 12 meetings) and special topics courses (395 and 495; weekly meetings) require consultation with the department by March of the preceding year and are offered only if faculty are available. Students may take more than one such course in one year or in their overall program.
- 400-level courses are normally limited to students in the fourth year of the Honours program.
- Students may take both *Classical History 100* and *Classical History 201* in first year.
- *Classical Literature 200* may be counted as fulfilling the university requirements for a 300-level course.

- From 2003–2004 onwards *Classical Civilization – Anthropology 226* will be a prerequisite for all 300- and 400-level courses in classical archaeology.
- *Classical Civilization 330* will be offered by the department if staffing permits it. Students may also pursue their special areas of interest in Mediterranean archaeology in field school courses offered by both other Canadian and non-Canadian universities for credit, with departmental approval.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in Ancient Greek & Roman Studies, in Greek or in Latin, if they have met the requirements for the joint-major General degree (see below). Students may obtain both their major and their minor within the department (for example, a major in Ancient Greek & Roman Studies with a minor in Greek), but no course in the major may be counted towards the minor as well.
- For the Emphasis in Archaeology, see p. 210.
- For the Emphasis in Classical History, see p. 211.
- For the most complete and up-to-date information on the Ancient History & Classics department – courses, faculty, special events, internet resources, etc. – check the Ancient History & Classics department website at www.trentu.ca/ahc.

BACHELOR OF ARTS PROGRAMS IN ANCIENT HISTORY & CLASSICS

- The department offers one principal major program (Ancient Greek & Roman Studies). A single major Honours program in Greek & Latin Language & Literature is available under certain circumstances.
- For the purposes of University regulations concerning the maximum number of credits in a single discipline (12 for Honours, eight for General), Ancient Greek & Roman Studies and Greek & Latin are considered separate disciplines.
- Students who propose to pursue a single-major or joint-major degree within the department should consult the chair of the department at the end of first year or very early in second year.
- Students considering graduate work in Ancient History & Classics are strongly advised to include as many credits in Greek and Latin as possible (at least five credits is suggested) in their program, and to begin the study of German or French as undergraduates.

ANCIENT GREEK & ROMAN STUDIES

Notes

- see p. 22 for requirements which apply to all undergraduate degree programs.
- *History 205* may be substituted for an unspecified credit in Ancient Greek & Roman Studies degree programs.
- *Classical Civilization – Anthropology* courses at the 200-level may be taken as 300- or 400-level credits with permission of the instructor.

The single-major Honours program. At least 10 credits within the department, including:

- 1 credit in Classical Literature
- 1 credit in Classical History
- 2 credits in Classical Civilization
- 6 additional credits within the department, at least 2 at the 300-level and 2 at the 400-level

The joint-major Honours program. At least 8 credits within the department, including:

- 1 credit in Classical Literature
- 1 credit in Classical History
- 2 full-credit equivalents in Classical Civilization
- 4 additional credits within the department, at least 1 at the 300-level and 2 at the 400-level

The single-major General program. At least 7 credits within the department, including:

- 1 credit in Classical Literature
- 1 credit in Classical History

- 2 full-credit equivalents in Classical Civilization
- 3 additional credits within the department, at least 2 at the 300-level

The joint-major General program. At least 5 credits within the department, including:

- 1 credit in Classical Literature
- 1 credit in Classical History
- 1 full-credit equivalent in Classical Civilization
- 2 additional credits within the department, at least 1 at the 300-level

GREEK & LATIN LANGUAGE & LITERATURE

Notes

- see p. 22 for requirements which apply to all undergraduate degree programs.
- The availability of a degree program in Greek & Latin Language & Literature and of a minor in Greek or Latin is subject to departmental staffing conditions.
- The availability of Greek and Latin courses beyond the 200-level is subject to departmental staffing conditions.
- Interested students must consult with the chair of the department as early as possible in their degree program.

The single-major Honours program. At least 9 courses within the department, including:

- at least 2 credits in Greek and at least 2 credits in Latin
- 4 additional credits in Greek or Latin
- 2 of the Greek or Latin credits at the 400-level
- 1 credit in Classical History

The minor in Greek consists of 5 credits in Greek, including *Greek 100* and *200*.

The minor in Latin consists of 5 credits in Latin, including *Latin 100* and *200*.

Please consult the academic timetable to determine which of the courses listed will be offered in 2004–2005.

CLASSICAL HISTORY COURSES

Classical History 100 – The history of Greece, to the decline of the city-states

An introduction to the study of ancient history illustrated by problems of the period 600 – 323 B.C. (early Sparta, the Athenian reformers Solon and Kleisthenes, Greek tyranny, Athenian democracy, the Athenian Empire, the world empire of Alexander). Two lectures weekly, monthly seminar. *K. H. Kinzl*

Classical History 201 – Rome from the Republic to the Caesars, c. 150 B.C. – A.D. 68

A study of republican institutions, Roman imperialism, the collapse of the republic in the last century B.C., the “monarchy” of Julius Caesar, the “restored republic” of Augustus and the reigns of the Julio-Claudian emperors (Tiberius, Claudius, Caligula and Nero). Two lectures weekly, fortnightly seminar. Open to first-year students. *Staff*

Classical History 205H/FA – International relations in the Greek world, c. 500–338 B.C.

A course examining such aspects as national and “racial” attitudes, imperialism, alliances and diplomacy, political propaganda, etc. Special attention will be given to the original documents of the time, studied in English. Two-hour meeting weekly. Open to students beyond first year. *K. H. Kinzl*

Classical History 207H/WI – Alexander the Great and his age

A course offering both a survey of the life and deeds of Alexander and an examination of the background, the ancient sources (studied in English) and modern assessments. Two-hour meeting weekly. Open to students beyond first year. *K. H. Kinzl*

Classical History 305 – Government and politics in the Greek city-states, c. 600–300 B.C.

A course examining such forms of government as democracy, tyranny, oligarchy, etc. Two-hour meeting weekly. Open to Classical History students beyond second year or permission of instructor. *K. H. Kinzl*

Classical History 331 – The Augustan principate and its origins, 44 B.C. – A.D. 14

A study of the political, constitutional, administrative, social and cultural history from the assassination of Julius Caesar to the death of Augustus, with special attention paid to the ancient sources (studied in English) and to modern assessments. Two-hour lecture weekly, fortnightly seminar. Prerequisite: *Classical History 201* or with permission of instructor. (Offered this year and in alternate years.) D. F. R. Page

Classical History 351 – The Roman Empire from Nero's suicide to the resignation of Diocletian, A.D. 68 – 305

The Roman world under the Flavians, A.D. 69 – 96, and during its peak in the second century; the militarization under the Severan emperors and the crisis of the third century; and the new order of Diocletian's tetrarchy. Two-hour lecture weekly, fortnightly seminar. Prerequisite: *Classical History 201* or with permission of instructor. (Offered in alternate years, but not this year.)

Classical History 352H – The Late Roman Empire, A.D. 305 – c. 600

The emergence of Christianity as the state religion under Constantine; the collapse of the Empire in the West and its replacement by Germanic kingdoms; the survival of the Empire in the east and the birth of Byzantine civilization. Two-hour lecture weekly, fortnightly seminar. Open to students beyond first year. Prerequisite: at least one half-course in Classical History or History or with permission of instructor. (Not offered this year.)

Classical History 390 or 395 – Reading or special topic course

Open to students beyond second year. Prerequisite: two courses in Ancient History & Classics in translation, one of which must be at the upper-year level. Open also to majors in History. K. H. Kinzl and D. F. R. Page

Classical History 410 – The Athenian Empire

Political and intellectual developments in the fifth century. Two-hour meeting weekly. Open to students beyond third year. K. H. Kinzl

Classical History 420 – Nerva, Trajan and Hadrian, A.D. 96–138

The politics, administration, society and economy of the three principates (including a glance back to the reign of Domitian, A.D. 81–96) and the expansion of Rome's frontiers under Trajan, with special emphasis placed on the literary, epigraphic and numismatic evidence and on modern assessments. Two-hour meeting weekly. Open to Classical History and History students beyond third year or with permission of instructor. (Offered this year and in alternate years.) D. F. R. Page

Classical History 490 or 495 – Reading or special topic course

K. H. Kinzl and D. F. R. Page

CLASSICAL LITERATURE COURSES**Classical Literature 100 – Greek drama in translation**

The history of drama (Greek: "action") begins in the world of ancient Greece (500–300 BC). We consider the three great writers of tragedy (Aeschylus, Sophokles, Euripides) as well as the comedy of Aristophanes and Menander. Lectures will also discuss the role of drama within the life of the ancient city-state. All texts are read in English translation. Two lectures weekly, fortnightly seminar. Staff

Classical Literature 200 – Greek myths and mythology

Myths of the ancient Greeks, specifically those dealing with the gods and their relationship with humans; the generations of the gods; the primal creation; Titans and Olympians; the nature of "myth" itself, why people in all ages tell (and re-tell) stories, and how these stories have been read and interpreted. Weekly lecture, fortnightly seminar. Open to all students beyond first year. (Offered this year and in alternate years.) Staff

Classical Literature 300 – Romance, fantasy and adventure in the ancient world

Did the ancients distinguish between "fiction" or "fantasy" and "non-fiction" as we do? Topics include the "quest theme" (*Gilgamesh*, *Odyssey*, *Voyage of Argo*, *Aeneid* I–VI, Lucian's "True" History), the concept of Utopia (the myth of Atlantis), and stories of sex and love (*Ephesian Story*, *Satyricon*, *Golden Ass*). Weekly lecture, fortnightly seminar. Open to all students beyond the first year. (Offered this year and in alternate years.) I. C. Storey

Classical Literature 390 and 490

A reading course. (Not offered this year.)

Classical Literature 395 and 495

A special topic course. (Not offered this year.)

CLASSICAL CIVILIZATION COURSES

Classical Civilization – Philosophy 210 – Ancient philosophy (see Philosophy)

Classical Civilization – Anthropology 220H – Introduction to Egyptian archaeology from the Pharaohs to the Romans

The methods and achievements of archaeologists and the art history of Egypt from the period of the Pharaohs, through the Persians and the Greeks to the Romans. Three hours weekly. Open to all students beyond the first year. *J. P. Moore and staff*

Classical Civilization – Anthropology – Geography 223H – The ancient city

The developments, innovations and achievements of the city in the Greek and Roman world from the Bronze Age to the Late Empire. Three hours weekly. Open to all students beyond first year. *J. P. Moore and staff*

Classical Civilization – Anthropology 226 – Introduction to classical archaeology and art history

A basic introduction to the archaeology and art history of the ancient world: the methods and achievements of classical archaeologists, and the physical remains of Greek cultural institutions and those of the Roman world (sculpture, pottery and vases, and architecture, etc.). Three hours weekly. Open to all students beyond first year. Excludes *Classical Civilization – Anthropology 224H, 227H and 228H*. *J. P. Moore and staff*

Classical Civilization – Women's Studies 231H/FA – Women in the Greek world, c. 700 – 300 B.C.

Material studied will be drawn from literature, philosophical and medical treatises, law codes and the visual arts and will be considered within the context of current trends of approach (e.g., sociological, anthropological, literary). Weekly lecture and seminar. Open to students beyond first year. *Staff*

Classical Civilization – Women's Studies 232H/WI – Women in the Roman world, 100 B.C. – A.D. 300

Topics will include the status of women in Roman law, the Roman family, sexuality and motherhood, feminine religious cults, women in Roman literature. The material will be considered within the context of current trends of approach (e.g. sociological, anthropological, literary). Weekly lecture and seminar. Open to students beyond first year. *Staff*

Classical Civilization – Anthropology 322 – Cult and religion in the Graeco-Roman world

The evidence of eyewitness accounts, inscriptions and physical remains. Topics will include the Delphic oracle, mystery cults and sacrificial rites. No knowledge of Latin or Greek is required. Three hours weekly. Prerequisite: one credit from *Classical Civilization – Anthropology 226, 227H, 228H* or both *Classical History 100 and 201*. Excludes *Classical Civilization – Anthropology 222*. (Not offered this year.)

Classical Civilization – Anthropology 325H – The Aegean Bronze Age

The great civilizations of the Greek world 3000–1000 B.C., with special emphasis on the Minoan and Mycenaean Crete/Greece. Attention will be given to archaeological methods and to the physical remains (architecture, vases, sculpture, jewelry). Three hours weekly. Prerequisite: one credit from *Classical Civilization – Anthropology 226, 227H, 228H*. Excludes *Classical Civilization – Anthropology 225H*. (Not offered this year.)

Classical Civilization 330 – Field course in ancient Mediterranean archaeology

A field course in archaeological methods and techniques at a Classical or Near Eastern site in the Mediterranean. Spring/Summers only – confirm with the department office. Prerequisite: *Anthropology 212* or *Classical Civilization – Anthropology 226* or permission of instructor. Limited enrolment. *J. P. Moore*

Classical Civilization – Anthropology 334H – Etruscan archaeology, c. 1000–200 B.C.

The material culture of the Etruscans, who rivaled the major Mediterranean powers in trade and warfare, and whose art, architecture and beliefs profoundly influenced ancient Roman culture. Three hours weekly. Prerequisite: one credit from *Classical Civilization – Anthropology 226, 227H, 228H*. Excludes *Classical Civilization – Anthropology 234H*. (Not offered this year.)

Classical Civilization 390 or 395 – Reading or special topic course

Open to students beyond second year. Prerequisite: two courses in Ancient History & Classics in translation, one of which must be at an upper-year level. *Staff*

Classical Civilization 490 or 495

A reading or special topic course. *Staff*

GREEK AND LATIN COURSES

Greek 100 – Elementary Greek

An introduction to the basic elements of ancient Greek providing the fundamentals of grammar and vocabulary. Some easy selections of ancient Greek will be read in this course. Four hours weekly. No prerequisite. *J. P. Moore*

Greek 200 – Intermediate Greek

Continuation and completion of classical Attic syntax and grammar, with readings from Lysias (*Against Eratosthenes*), Aristophanes (*Acharnians*), Lucian (*A "True" History*), *The New Testament*. Three hours weekly, including language study. Prerequisite: *Greek 100* or OAC Greek. *Staff*

Greek 390 – Reading course (Not offered this year.)

Greek 395 – Special topic course

The texts this year will relate to the theme of the Cyclops and explore how this character develops from monstrous beast to sympathetic shepherd in love. Texts to be read are: Homer *Odyssey* IX, Euripides' *Cyclops*, Theokritos XI, plus selections of other relevant texts. Three meetings per week. Prerequisite: *Greek 200* and permission of the department. *I. C. Storey*

Greek 490 – Reading or special topic course (Not offered this year.)

Greek 495 – Special topic course

See *Greek 395*. Prerequisite: *Greek 395* and permission of the department. *I. C. Storey*

Latin 100 – Latin for beginners

An introduction to Latin through reading and comprehension. Special emphasis will be placed on acquiring a working vocabulary and on a grasp of Latin syntax. For students who have little or no previous knowledge of the language but who wish to be able to understand "the basics." No prerequisite. Four hours weekly. *D. F. R. Page*

Latin 200 – Intermediate Latin

Continuation and completion of Latin grammar, with reading of relatively easy selections from prose and verse, republic to silver age. Three hours weekly, including language study. Prerequisite: *Latin 100* or OAC Latin. *D. F. R. Page*

Latin 390 – Reading course (Not offered this year.)

Latin 395 – Special topic course *Latin 200* and permission of the department. *Staff*

Latin 490 – Reading or special topic course (Not offered this year.)

Latin 495 – Special topic course *Latin 395* and permission of the department. *Staff*

Anthropology

Telephone: (705) 748-1011 ext. 1325
Fax: (705) 748-1613

E-mail: anthro@trentu.ca
Web: www.trentu.ca/anthropology

Professor and Chair of the Department

S. M. Jamieson, B.A. (McMaster), M.A. (Manitoba), Ph.D. (Washington State)

Assistant Professor and Canada Research Chair

J. Conolly, B.A. (Toronto), M.A., Ph.D. (London)

Professors

P. F. Healy, B.A. (California-Berkeley), M.A., Ph.D. (Harvard); **S. M. Jamieson**, B.A. (McMaster), M.A. (Manitoba), Ph.D. (Washington State); **J. K. So**, M.A., Ph.D. (SUNY, Buffalo); **J. R. Topic**, M.A., Ph.D. (Harvard) (*on leave 2004-2005*)

Associate Professors

J. Harrison, B.A. (Saskatchewan), M.A. (Calgary), D.Phil. (Oxford); **S. Hepburn**, B.A. (Calgary, Cambridge), M.A. (McGill), Ph.D. (Cornell); **A. Meneley**, B.A. (McGill) Ph.D. (New York); **R. D. Powell**, Lic. en Historia (Cordoba), Ph.D. (McGill); **M. J. Tamplin**, B.A. (Toronto), M.A. (London), Ph.D. (Arizona) (*on leave Fall session*)

Assistant Professors

G. Iannone, B.A. (Simon Fraser), M.A. (Trent), Ph.D. (London); **A. Keenleyside**, B.A. (McMaster), M.A. (Alberta), Ph.D. (McMaster); **R. Lohmann**, B.A., M.A., Ph.D. (Wisconsin-Madison); **P. Manning**, B.A. (Reed), M.A., Ph.D. (Chicago); **M. Munson**, B.A. (Miami), M.A., Ph.D. (New Mexico)

Professors Emeriti

H. S. Helmuth, D.Sc., Dr. Habil. (Kiel); **E. M. Todd**, B.A. (Toronto), Ph.D. (North Carolina); **J. M. Vastokas**, M.A. (Toronto), Ph.D. (Columbia); **R. K. Vastokas**, M.A. (Toronto), Ph.D. (Columbia)

Research Associates

K. Cassavoy, B.A. (Trent), M.A. (Texas A&M); **C. Oberholtzer**, M.A. (Trent), Ph.D. (McMaster)

Associated Professor

J. Solway, M.A., Ph.D. (Toronto) (on leave Fall session)

Anthropology is the study of humankind. It is a discipline integrating four sub-fields: archaeology, linguistics, biological anthropology and sociocultural anthropology. Archaeologists recover material remains in order to interpret past cultures. Linguists study languages worldwide and in relation to society and culture. Biological anthropologists investigate human origins, growth and development in relation to environmental, genetic and sociocultural factors. Sociocultural anthropologists work with living groups world-wide, recording their ways of life and beliefs and interpreting their findings to better understand and explain the similarities and differences among people. Anthropologists investigate economic and social inequality; identity, ethnicity and nationalism; ethnocentrism and racism; gender and society; the individual and society; the role of technology and material culture; and tensions between global and local perspectives. A constant and distinctive feature of anthropology is its insistence upon the study of lived experience, the anthropology of everyday life.

Notes

- *Anthropology 100* is a prerequisite for all upper-level courses in Anthropology.
- For all third- and fourth-year courses in Anthropology the appropriate 200-level course is the required prerequisite. This requirement will only be waived in exceptional circumstances.
- Students who successfully completed all four of *Anthropology 200, 212, 231* and *240*, may count one of them as equivalent to a 300-level credit in order to satisfy the University requirement for at least seven credits beyond the 200-level in the Honours program and at least four in the General program.
- Courses in Anthropology fulfilling University science course requirements for the B.Sc. are marked (Sc) in the individual course descriptions.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in Anthropology, if they have met the requirements for the joint-major General degree (see below).
- For the Emphasis in Archaeology, see page 210.

BACHELOR OF ARTS AND BACHELOR OF SCIENCE PROGRAMS IN ANTHROPOLOGY

- see p. 22 for requirements which apply to all undergraduate degree programs.
- The Anthropology department offers both a B.A. and a B.Sc. degree.
- Students undertaking the single-major Honours program in Anthropology have the option of bypassing *Anthropology 100* if they can demonstrate previous experience of the discipline, have an 80% OAC average or equivalent and include all four of *Anthropology 200, 212, 231* and *240* in their first 10 credits. An interview with, and the written permission of, the chair of the department are required in all cases. This will not alter the minimum number of Anthropology credits required for the degree.
- Students in the joint-major program in Anthropology and International Development Studies may substitute *International Development – Anthropology 221* for one of *Anthropology 212, 231* or *240*.
- Students planning to enter graduate school are strongly advised to take *Anthropology 200, 212, 231* and *240*; if they are planning on continuing in archaeology they are strongly advised to take both *Anthropology 310* and *399*.
- *Modern Languages 101* may be counted as part of the course requirements for a major in Anthropology.

The single-major Honours program. At least 10 credits in Anthropology. The program must include:

- *Anthropology 100* and *200*
- at least 2 of *Anthropology 212, 231* or *240*
- *Anthropology 310* or *399*
- 4 additional credits in Anthropology beyond the 200-level
- 1 additional credit in Anthropology
- for the B.Sc., 14 science credits in the program as a whole, including 1 credit in Mathematics, preferably *Mathematics – Statistics 150*

The joint-major Honours program. At least 7 credits in Anthropology. The program must include:

- *Anthropology 100* and *200*
- at least 1 of *Anthropology 212, 231* or *240*
- *Anthropology 310* or *399*
- 2 additional credits in Anthropology beyond the 200-level
- 1 additional credit in Anthropology
- for the B.Sc., 14 science credits in the program as a whole, including 1 credit in Mathematics, preferably *Mathematics – Statistics 150*

The single-major General program. At least 6 credits in Anthropology. The program must include:

- *Anthropology 100* and *200*
- at least 2 of *Anthropology 212, 231* or *240*
- 2 additional credits in Anthropology beyond the 200-level
- for the B.Sc., 11 science credits in the program as a whole, including 1 credit in Mathematics, preferably *Mathematics – Statistics 150*

The joint-major General program. At least 5 credits in Anthropology. The program must include:

- *Anthropology 100* and *200*
- at least 1 of *Anthropology 212, 231* or *240*
- 1 additional credit in Anthropology beyond the 200-level
- for the B.Sc., 11 science credits in the program as a whole, including 1 credit in Mathematics, preferably *Mathematics – Statistics 150*

Please consult the academic timetable to determine which of the courses listed will be offered in 2004-2005.

Anthropology 100 – Introductory anthropology (Sc)

Understanding and explaining humanity in all its variety. An interdisciplinary, comparative study of people and their cultures throughout the world (cultural anthropology), of human evolution, adaptation and genetics (physical anthropology), the recovery and development of prehistoric societies (archaeology) and language as an aspect of culture (linguistics). Two-hour lecture weekly and periodic one-hour workshops as scheduled. *S. Hepburn, P. Manning, J. So, and staff*

Anthropology 200 – Sociocultural anthropology

An introduction to the history, theory and ethnographic methods of cultural anthropology and their role in understanding religion, exchange systems, political and social organization, kinship, gender and issues of social and cultural change. Prerequisite: *Anthropology 100* or *Sociology 100* or permission of instructor. Two-hour lecture weekly, seminar fortnightly. *J. Harrison*

Anthropology – Modern Languages 201H – Phonetics (see Modern Languages & Literatures)

Anthropology – Modern Languages 202H – Historical linguistics (see Modern Languages & Literatures)

Anthropology 212 – Archaeology (Sc)

A study of the methods used by archaeologists to recover and analyze their data, and a survey of worldwide technological and cultural evolution from the first human ancestors to the earliest civilizations. Prerequisite: *Anthropology 100* or permission of instructor. Two-hour lecture weekly, one-hour tutorial/lab fortnightly. *P. Healy and staff*

Anthropology – Classical Civilization 220H – Introduction to Egyptian archaeology from the Pharaohs to the Romans (see Ancient History & Classics)

Anthropology – International Development 221 – Agrarian change and food production in a global context (see International Development Studies)

Anthropology – Classical Civilization – Geography 223H – The ancient city (see Ancient History & Classics)

Anthropology 226 – Classical Civilization – Introduction to classical archaeology and art history (see Ancient History & Classics)

Anthropology 231 – Language, culture and society

The course provides an introduction to the study of language in its social and cultural context. Students will be introduced to seminal research in the ethnography of communication and variationist sociolinguistics. The course will cover topics relating language to gender, politics, ethnicity and social institutions, and will cover such topics as cross-cultural miscommunication, multilingualism and language socialization. Prerequisite: *Anthropology 100*. Two-hour lecture weekly, seminar fortnightly. Excludes *Anthropology 332*. *P. Manning*

Anthropology 240 – Biological anthropology (Sc)

The study of the genetics, evolution, growth and development, and biology of the human species. Prerequisite: *Anthropology 100* or permission of instructor. Two-hour lecture weekly, two-hour seminar in the laboratory fortnightly. *A. Keenleyside*

Anthropology – Canadian Studies – Native Studies 253 – Aboriginal art of North America

An introduction to the visual arts and architecture of the Aboriginal Peoples of North America. The historical development of these arts from antiquity to the present is traced, with an emphasis on Canadian First Nations. Prerequisite: *Anthropology 100* or permission of instructor. Two-hour lecture/discussion period weekly. *M. Munson*

Anthropology 300 – Field methods and techniques in anthropology (Sc)

An introduction to methods and techniques of discovery, analysis and interpretation in a field situation in any one sub-discipline (archaeology, cultural, physical or linguistic anthropology). Summers only – confirm with the department office. Prerequisite: *Anthropology 200, 212, 231* or *240* as appropriate or permission of instructor. Excludes *Anthropology 211*. Limited enrolment. *G. Iannone, S. Jamieson*

Anthropology – International Development 301 – African culture and society

An introduction to contemporary African culture and society, focusing on culture history and indigenous institutions, the impact of colonial rule and present-day problems of development. Prerequisite: *Anthropology 200* or *International Development 200* or permission of the instructor. (Not offered this year.)

Anthropology – International Development 304 – Latin American culture and society

Examination of ethnic and historical foundations of contemporary Latin American societies. Problems of modernization with special emphasis on peasant movements, Aboriginal groups and interethnic relations. Prerequisite: *Anthropology 200* or *International Development 200* or permission of instructor. Two-hour lecture, one-hour seminar weekly. *D. Powell*

Anthropology – International Development 306 – South Asian culture and society

An exploration of South Asian culture and society (as it exists both on and off the Indian sub-continent) and of how issues of general theoretical interest in anthropology have been addressed in the South Asian cultural context. Particular emphasis will be placed on the Himalayan region. Prerequisite: *Anthropology 200* or *International Development 200* or permission of instructor. Three-hour lecture/seminar weekly. (Not offered this year.)

Anthropology 309 – Ethnographic method and theory in cultural anthropology

The course will cover research design, field methods, ethics, styles of ethnographic writing and on-going critical debates about methodology. Three-hour seminar weekly. Limited enrolment. Prerequisite: *Anthropology 200* or permission of instructor. Excludes *Anthropology 409*. (Support course for International Development Studies). *S. Hepburn*

Anthropology 310 – Key ideas in archaeology and bioarchaeology (Sc)

The lecture component of this course will outline the history of archaeological thought. The seminar component will provide a “hands-on” exploration of how method and theory are applied within archaeological interpretation. Key ideas in bioarchaeology, such as evolution, race, ethnicity, and repatriation will also be addressed. Prerequisite: *Anthropology 212* or permission of instructor. Two-hour lecture weekly, one-hour lab/seminar weekly. *G. Iannone*

Anthropology 311 – North American culture histories (Sc)

A survey of the Aboriginal cultures in North America (excluding Mexico) from the first humans to European contact. Prerequisite: *Anthropology 212* or permission of instructor. Two-hour lecture weekly, seminar fortnightly. (Offered in alternate years but not this year.)

Anthropology 312 – Old World prehistory: Pleistocene and recent periods (Sc)

A general survey of Old World prehistoric cultural adaptations to changing environments during the Pleistocene, followed by a more intensive study of post-Pleistocene European prehistory, concentrating on recent research to the end of the Neolithic. Prerequisite: *Anthropology 212* or permission of instructor. Two-hour lecture/seminar weekly. (Not offered this year.)

Anthropology 314 – Archaeology, ethnohistory and ethnography of South America

An examination of native societies of selected areas of South America with an emphasis on the Andean and Amazonian areas. Prerequisite: *Anthropology 200, 212*, or permission of instructor. Two-hour lecture weekly, seminar fortnightly. (Not offered this year.)

Anthropology 315 – Archaeological laboratory procedures (Sc)

The description and analysis of materials from archaeological contexts including artifacts and natural organic and inorganic remains. Prerequisite *Anthropology 212* or permission of instructor. Two one-hour lectures weekly and one two-hour lab fortnightly. Limited enrolment. *P. Healy and staff.*

Anthropology – Classical Civilization 322 – Cult and religion in the Graeco-Roman world
(see Ancient History & Classics)

Anthropology – Classical Civilization 325H – The Aegean Bronze Age (see Ancient History & Classics)

Anthropology – Classical Civilization 334H – Etruscan archaeology, c. 1000–200 B.C. (see Ancient History & Classics)

Anthropology – Biology 341 – Human osteology and forensic anthropology (Sc)

An introduction to forensic anthropology, a subfield of physical anthropology that focuses on the recovery, identification, and evaluation of human skeletal remains within a medicolegal context. Students learn the basic principles of human osteology, as well as methods of determining age, sex, stature, and other identifying characteristics of skeletal remains. Prerequisite: *Anthropology 240*. Two-hour lecture weekly, two-hour lab weekly. Limited enrolment. *A. Keenleyside*

Anthropology – Biology 344H – Human genetics (Sc)

A survey of genetic principles as applied to the human being with special emphasis on clinical, populational and evolutionary genetics. Prerequisite: *Anthropology 240* or permission of instructor. Excludes *Anthropology – Biology 343*. Two-hour lecture and one-hour seminar in the lab weekly. (Not offered this year.)

Anthropology – Biology 346H/WI – Biocultural explorations of human lifecourse (Sc)

A survey of the human lifecourse through a biocultural lens, focussing on life history theory, demography, growth and development, adaptive human biology, determinants of health, and aging. The human species on the individual and population levels is seen as a product of evolutionary and biological forces, and of culture and society. Prerequisite: *Anthropology 240* or permission of instructor. Two-hour lecture and one-hour seminar weekly. *J. So*

Anthropology – Biology 347H/FA – Primate behaviour (Sc)

A general survey of the Order Primates, focusing on their history, classification, distribution, ecology and behaviour within an evolutionary/adaptive context, with emphasis on the comparisons of non-human primates with the human species. Prerequisite: *Anthropology 240* or permission of instructor. Two-hour lecture/seminar weekly. *Staff*

Anthropology 348 – Medical anthropology (Sc)

An intensive and comparative exploration of the anthropology of health and illness, including history and theory; research methodology; biological, ecological and sociocultural determinants of health; and cross-cultural differences in healing systems. Prerequisite: *Anthropology 240* or permission of instructor. Two-hour lecture and one-hour seminar weekly. *J. So*

Anthropology – Biology 349H – Primate evolution (Sc)

General biology, systematics, anatomy and paleontology of non-human primates, including the importance of primates for understanding human evolution. Prerequisite: *Anthropology 240* or permission of instructor. Excludes *Anthropology – Biology 340*. Two-hour lecture and one-hour seminar in laboratory weekly. (Not offered this year.)

Anthropology – Cultural Studies 350 – The crisis of modern critical discourse: the “return of the religious” and the political (see Cultural Studies)

Anthropology – Canadian Studies 351 – Art, architecture and society

Analysis of the visual arts and architecture in cross-cultural perspective. Lectures introduce analytical methods and explore such themes as artist's role in society, art and religion, art as propaganda, cultural creativity. Seminars focus upon Canadian art (Aboriginal and Western); architecture and space; gender issues; art as communication and representation. Prerequisite: One of *Anthropology 200, 212, 253* or permission of instructor. Three-hour lecture/discussion weekly. *M. Munson*

Anthropology – Computer Studies 363H/WI – Computer applications in anthropology (Sc)

This course explores the use of computers in anthropological research. Topics include data analysis, using anthropological databases, doing social simulations and the ethnography of human-computer interaction. Prerequisite: Any one of *Anthropology 200, 212, 231, 240* and *Computer Science 151H* or equivalent. One-hour lecture and two-hour lab weekly. *J. Conolly*

Anthropology 365H/FA – Archaeological settlement and spatial studies (Sc)

The course explores the spatial dimension of archaeological data and its relationship to ecology and human behaviour. Approaches to the distributions of artifacts and sites, the organization of buildings and settlements, and the interactions between cultures will be discussed. Both techniques of analysis and interpretative concepts will be presented. Prerequisite: *Anthropology 212* or permission of instructor. Three-hour lecture/lab/ seminar weekly. *J. Conolly*

Anthropology 371H – The Maya (Sc)

Survey of the ancient and modern Maya of Central America. Examines the culture of the contemporary Maya, one of the largest native groups of the Americas, as well as the archaeology of Pre-Columbian Maya civilization. Prerequisite: *Anthropology 212* or permission of instructor. Two-hour lecture weekly. One-hour seminar fortnightly. (Not offered this year.)

Anthropology 372H/FA – Caribbean archaeology (Sc)

Survey of the prehistoric archaeology and ethnohistory of the Caribbean area, including an examination of the culture history of the Greater and Lesser Antilles. Focus is on the Arawak, Carib, and Taino societies (art, architecture, religion, politics, economy, technology and subsistence) until the arrival of Columbus. Prerequisite: *Anthropology 212* or permission of instructor. Two-hour lecture weekly. One-hour seminar fortnightly. *P. Healy*

Anthropology – International Development 377 – Society, culture and development in Africa (See International Development)

Anthropology – International Development 389 – Andean, economy, culture and society (See International Development)

Anthropology – Native Studies – Canadian Studies 398H – Ethnographic representations of Canadian Aboriginal People

Selected ethnographic representations of Canadian Aboriginal People covering the history of anthropology will be examined. This work will be broadly situated in its social, cultural and political context. Prerequisite: *Anthropology 200*. Two-hour seminar weekly. (Not offered this year.)

Anthropology 399 – Theories of society and culture

Structured thematically, the course will survey the principle theoretical developments in the discipline. Prerequisite: *Anthropology 200* and one of *Anthropology 212, 231* or *240* or *Anthropology – International Development 221*. Excludes *Anthropology 420*. A two-hour lecture weekly and a weekly discussion group. *A. Meneley*

Anthropology 401, 402D – Honours thesis (Sc depending upon topic)

Students undertake a specific research project and write a thesis of 12,000 to 15,000 words on a well-defined topic. *Anthropology 402* is a double credit in Anthropology. *Anthropology 401* is a single credit applicable to a joint-major thesis. Arrangements begin with the chair of the department March 1 and departmental approval must be completed before March 31. Prerequisite: *Anthropology 310* or *399*; courses directly relevant to the thesis topic; and an A- (80%) minimum overall average in Anthropology courses. *Staff*

Anthropology 405 – Anthropology of religion

An exploration of how anthropologists have approached phenomena such as witchcraft, shamanism, ritual and myth as a way of understanding the epistemologies and cosmologies of people in diverse cultural contexts. Prerequisite: *Anthropology 200* or permission of instructor. Excludes *Anthropology 320*. Three-hour lecture/seminar weekly. *R. Lohmann*

Anthropology 406 – Culture and mortality

Although cultures are diverse, people of all cultures die. In this course we will explore the questions of death from the perspectives of many cultures. In light of this cross-cultural examination we ask what it means to be "mortal." Prerequisite: *Anthropology 200*. Prerequisite or co-requisite *Anthropology 310* or *Anthropology 399*. Three-hour seminar weekly. (Offered in alternate years but not this year.)

Anthropology – International Development 407 – Politics, economics and culture

Anthropological approaches to the study of politics and the economy in non-industrial and industrial societies with an emphasis on the symbolic, ritual and social dimensions of these endeavours. The change and transformation of local economic and political units in the context of contemporary state organization and transnational economic systems. Prerequisite: *Anthropology 200*, *International Development 200* or permission of instructor. (Support course for International Development Studies.) Two-hour lecture, one-hour seminar weekly. (Not offered this year.)

Anthropology – Canadian Studies 408H – The tourist

This course is designed as a complement to *Anthropology 409H*. It will examine the idea of the tourist both within the context of a "pleasure seeker" leaving home for a limited period of time, as well as the idea of the tourist at a more metaphorical level within the context of the modern and postmodern worlds. Prerequisite: *Anthropology 200*. Three-hour seminar weekly. (Not offered this year.)

Anthropology – Canadian Studies 409H/WI – The sociocultural impacts of tourism

This course is designed as a complement to *Anthropology 408H*. It will explore some of the crucial issues around the sociocultural impact of tourism. We will be examining examples of the impact of tourism in a series of case studies, both within Canada and much further afield. Prerequisite: *Anthropology 200*. Three-hour seminar weekly. *J. Harrison*

Anthropology 411 – Andean prehistory (Sc)

A detailed survey of the prehispanic civilizations of Peru and Bolivia. Archaeological evidence for the economy, ideology and social organization of Inca, Tiwanaku, Moche and other Andean civilizations will be reviewed. Prerequisite: *Anthropology 212* or permission of instructor. Two-hour lecture weekly, seminar fortnightly. (Not offered this year.)

Anthropology 412 – Archaeology of Ancient Mesoamerica (Sc)

A survey of the ancient Native civilizations of Mexico and Central America from the earliest settlement to the European conquest. The course includes a study of Aztecs, Maya, Olmec and other societies of Mesoamerica. Prerequisite: *Anthropology 212* or permission of instructor. Two-hour lecture weekly, seminar fortnightly. (Offered this year and in alternate years.) *P. Healy*

Anthropology 413 – Archaeology of the Intermediate Area (Sc)

Detailed survey of the ancient Native cultures of lower Central America and northern South America from the earliest settlement to the 16th century. The course examines Precolumbian evolution of cultures from Honduras to Ecuador, focusing upon Aboriginal arts and technologies and contacts with the civilizations of Mesoamerica and the Andes. Prerequisite: *Anthropology 212* or permission of instructor. Two-hour lecture weekly, seminar fortnightly. (Offered in alternate years but not this year.)

Anthropology 414H/FA – Historic archaeology (Sc)

A survey of the methods and techniques that historical archaeologists use to define, describe, and analyze their data. Prerequisite: *Anthropology 212* or permission of instructor. Recommended: *Anthropology 310*. Two-hour lecture weekly, seminar fortnightly. (Offered this year and in alternate years.) *S. Jamieson*

Anthropology 415H/WI – Cultural heritage management (Sc)

An introduction to the approaches archaeologists use to address challenges and solve problems in the identification, evaluation, conservation, management, and interpretation of archaeological sites. Prerequisite: *Anthropology 212* or permission of instructor. Recommended: *Anthropology 310*. Two-hour lecture weekly, seminar fortnightly. (Offered this year and in alternate years.) *S. Jamieson*

Anthropology – Women's Studies 422 – Gender: An anthropological perspective

A methodological and theoretical re-evaluation of anthropology's approach to gender. Cross-cultural approaches to biology, sex roles, ideology, politics, economics, kinship, etc. Prerequisite: *Anthropology 200*. Two-hour lecture/seminar weekly. (Not offered this year.)

Anthropology 424H/FA – Nonverbal communication (Sc)

An overview of approaches to the study of human communication by all means other than words. Included are: proxemics (the relation of persons and objects in space); kinesics (gesture, posture, body movement); paralanguage (vocal cues that accompany speech); the special role of the face and eyes; and the effects of personal appearance, clothing and bodily adornment. Prerequisite: *Anthropology 200* or *231*. Excludes *Anthropology 423*. Two-hour lecture/seminar weekly. P. Manning

Anthropology 442H – Applied anthropometry in modern societies (Sc)

The methods of static, spatial and dynamic-functional measurements of the human body. The application of anthropometry in providing better relationships between humans and their technological innovations, i.e. tools, clothing, work space, sports and medicine. Prerequisite: *Anthropology 240* or permission of instructor. One-hour lecture and two-hour lab session weekly. (Not offered this year.)

Anthropology – Canadian Studies 450H/FA – Anthropology of race and racism

An exploration of the historical development of the race concept in science and society; its current status in teaching and research in anthropology and other social and biomedical sciences; and its representation in contemporary culture and society in Canada and elsewhere. Prerequisite: *Anthropology 200* or *240* or (for Canadian Studies Studies majors only) *Canadian Studies 300*. One-hour lecture and one-hour seminar weekly. J. So

Anthropology – Native Studies 455 – Anthropology and Aboriginal Peoples of Canada

Aspects of the relationship between Canadian Aboriginal Peoples and anthropology will be explored. This course will reflect on the paradigmatic changes that have occurred since the mid-19th century in anthropology and how these changes have affected relationships with Canadian Aboriginal Peoples in the field's subdisciplines, in museum work and in applied work. Prerequisite: *Anthropology 200* or *Native Studies 200*. Three-hour seminar weekly. (Not offered this year.)

Anthropology – International Development 475H – Perspectives on ethnicity (see International Development Studies)**Anthropology – International Development 476H – Family and modernity** (see International Development Studies)**Anthropology 490, 491H, 492H – Reading course (Sc)**

A course designed to pursue special interests largely through independent study. Signature of instructor and department required. Details to be arranged in advance consultation with faculty in Anthropology and proposals to be submitted to the chair of the department for approval and signature before registration.

Anthropology 4931H/WI – Special topic: Archaeology and popular culture (Sc)

This course provides a critical assessment of ways in which archaeology and archaeologists are portrayed in various forms of "popular culture," including films, television dramas, documentaries, cartoons, fiction novels, magazines, video games, and science fiction. Prerequisite: *Anthropology 212* or permission of the instructor. One-hour lecture and two-hour seminar weekly. G. Iannone

Anthropology 494 – Special topic: Culture and food

This course examines classic issues in the anthropology of food. We focus on etiquette, food and sex, food and religion, food and gender, gluttony and hunger, and cannibalism. We investigate food distribution and consumption, particularly contemporary movements protesting the incursion of industrially produced fast food. Prerequisite: *Anthropology 200* or permission of instructor. Three-hour lecture/seminar weekly. A. Meneley

Anthropology 495 – Special topic: Key ideas in the archaeology of early states (Sc)

A survey of the theoretical models used to study early states throughout the world. Focus will be on the definition of early states, and ideas related to their development, general characteristics, socioeconomic and sociopolitical organization, and subsequent collapse. Prerequisite: *Anthropology 212* or permission of the instructor. Two-hour lecture and one-hour seminar weekly. (Not offered this year.)

Anthropology 496H/FA – Special topic: Zooarchaeology (Sc)

The identification and interpretation of animal remains from archaeological sites. Prerequisite: *Anthropology 315* or permission of the instructor. Two-hour lecture/ seminar weekly, two-hour lab fortnightly. *M. Tamplin*

Anthropology 497H/FA – Special topic: Society and culture in the Himalayas

This course examines how issues of general theoretical interest in anthropology have been addressed through ethnographic research in the Himalayan regions of Nepal, India, Bhutan, and Tibet. Substantive topics will include: ethnic and religious complexity within the state, gender, tourism, culture and politics, and images of the Himalayas in the West. Prerequisite: *Anthropology 200* or permission of the instructor. Three-hour seminar weekly. (Offered this year and in alternate years.) *S. Hepburn*

Anthropology – International Development 4971H – Western Europe (I) – People and place
(see International Development Studies)**Anthropology – International Development 4972H – Western Europe (II) – Movements and ideas** (see International Development Studies)**Anthropology 498H/WI – Special topic: Visual anthropology/anthropology of vision**

This course explores the nature of vision, and its place in anthropology. The following topics are considered: What is the role of vision among the senses (considered cross-culturally)? In what way has anthropology been shaped by the ocularcentrism of Western Culture? How can we imagine/know/describe non-Western modes of vision? Prerequisite: *Anthropology 200* or permission of the instructor. Three-hour seminar weekly. (Offered this year and in alternate years.) *S. Hepburn*

Anthropology 499H/FA – Special topic: Consumption and exchange

This course explores classic anthropological theories of exchange (Mauss, Simmel) and consumption (Veblen, Bourdieu). A range of topics (food and drink, adornment, shopping, for instance), in both Western and non-Western societies, will be considered. Prerequisite: *Anthropology 200* or permission of the instructor. Three-hour seminar weekly. *A. Meneley*

Biochemistry & Molecular Biology

Program Co-ordinators**Chair of the Biology Department**

C. Kapron, B.Sc. (Waterloo), M.Sc., Ph.D. (McGill)

Chair of the Chemistry Department

To be named

Faculty

See listing of faculty in Biology and Chemistry.

The chemistry of life processes is at the heart of all things living. The Biochemistry & Molecular Biology program is designed to provide a foundation in the chemistry of biological systems, combining study of analytical, organic and physical chemistry with biochemistry, molecular biology and cell physiology. Students completing the program will have a detailed understanding of the processes that control and mediate health, illness, reproduction, growth and ultimately life itself. Honours research projects introduce students to modern methods in protein chemistry, bioengineering and molecular biology.

Note

- There is no minor in Biochemistry & Molecular Biology.

BACHELOR OF SCIENCE PROGRAM IN BIOCHEMISTRY & MOLECULAR BIOLOGY

- see p. 22 for requirements which apply to all undergraduate degree programs.
- The program in Biochemistry & Molecular Biology is a sequence of courses offered by the departments of Biology and Chemistry that compose an integrated whole. It is not available as a joint-major degree.
- For information on individual courses see calendar entries for Biology and Chemistry.
- Students wishing to transfer to a single-major program in Biology or Chemistry should consult the chair of the appropriate department before beginning third year.

- A maximum of two credits in thesis or project courses may be counted toward a Biochemistry & Molecular Biology degree.
- An average of 75% in all previous Chemistry and Biology courses and permission of the coordinator are prerequisites for *Chemistry 456* and *457D*.
- For the Specialization in Health Sciences, see p. 42.

The single-major Honours program. At least 14 credits in Biology and Chemistry. The program must include:

- *Biology 102H, 103H, 206H, 207H, Chemistry 100, 200, 212, 240H, Chemistry – Biology 231H, 330, 434H, 435H*
- 2 credits from *Biology 325H, 326H, 328H, 335H, 383H, 384H, 408H, 416H, 432H, 460H* or *484H*
- 1 additional credit in Chemistry at the 300-level
- 3 additional credits in Biology or Chemistry beyond the 200-level
- 1 credit in *Mathematics 110* (or in *Mathematics 105H* and another 0.5 credit in Mathematics)

The single-major General program. At least 10 credits in Biology and Chemistry. The program must include:

- *Biology 102H, 103H, 206H, 207H, Chemistry 100, 200, 212, 240H* and *Chemistry – Biology 231H* and *330*
- 2 credits from *Biology 325H, 326H, 328H, 335H, 383H, 384H, 408H, 416H, 432H, 460H* or *484H*
- 1 additional credit in Chemistry at the 300-level
- 1 credit in *Mathematics 110* (or in *Mathematics 105H* and another 0.5 credit in Mathematics)

Biology

Telephone: (705) 748-1011 ext. 1424
Fax: (705) 748-1205

E-mail: biology@trentu.ca
Web: www.trentu.ca/Biology

Associate Professor and Chair of the Department

C. Kapron, B.Sc. (Waterloo), M.Sc., Ph.D. (McGill)

Professor and Canada Research Chair

B. White, B.Sc. (Nottingham), Ph.D. (McMaster)

Associate Professor and Canada Research Chair

D. Murray, B.Sc. (McGill), M.Sc. (Alberta), Ph.D. (Wisconsin)

Professors

M. Berrill, B.Sc. (McGill), M.Sc. (Hawaii), Ph.D. (Princeton); **M. G. Fox**, B.Sc. (Pennsylvania), M.E. Des. (Calgary), Ph.D. (Queen's); **D. C. Lasenby**, B.Sc. (Trent), Ph.D. (Toronto) (*on leave Fall session*); **E. Nol**, B.Sc. (Michigan), M.Sc. (Guelph), Ph.D. (Toronto); **J. F. Sutcliffe**, B.Sc. (Waterloo), M.Sc., Ph.D. (Toronto) (*on leave 2004-2005*)

Associate Professors

T. R. Matthews, B.Sc. (Southampton); **C. D. Maxwell**, B.Sc. (Wales) (*on leave Winter session*); **J. Schaefer**, B.Sc. (McGill), M.Sc. (Manitoba), Ph.D. (Saskatchewan)

Assistant Professors

I. Brenner, R.N., B.Sc. (Toronto), B. Phys. Ed. (Toronto), B.Sc.N. (Toronto), M.Sc. (Queen's), Ph.D. (Toronto); **C. Brunetti**, B.Sc., Ph.D. (McMaster); **G. Burness**, B.Sc. (Memorial), M.Sc. (Brock), Ph.D. (U.B.C.); **J. Cebek**, B.Sc., M.Sc. (Trent), Ph.D. (York); **N. Emery**, B.Sc. (Queen's), Ph.D. (Calgary) (*on leave Fall session*); **L. Kerr**, B.Sc., M.Sc. (Carleton), Ph.D. (British Columbia); **P. Wilson**, B.Sc., M.Sc., Ph.D. (McMaster); **J. Yee**, B.Sc. (Toronto), M.Sc. (Queen's), Ph.D. (U.B.C.)

Professors Emeriti

R. L. Edwards, M.A., D.Phil. (Oxon); **T. C. Hutchinson**, B.Sc. (Manchester), Ph.D. (Sheffield), F.R.S.C.; **R. Jones**, B.Sc. (Wales), M.Sc. (Kansas), Ph.D. (Wales); **P. M. Powles**, B.A. (McGill), M.Sc. (Western Ontario), Ph.D. (McGill); **I. M. Sandeman**, B.Sc. (St Andrews), FLS.

Adjunct Faculty**G. Mitchell**, B.Sc. (Trent), A.R.T.**Conjunct Faculty****J. Carver****Senior Demonstrator****D. Buelow**, B.Sc. (Trent), M.Sc. (Toronto)**Demonstrators/Technicians****S. Chow**, M.Sc. (Saskatchewan); **D. Lietz**, Lb.T. (Seneca); **W. Wilson**, R.T.**Associated Faculty****M. Havas**, B.Sc., Ph.D. (Toronto)

Biology is the study of life at all levels of organization, from molecular and cell to population and community. Students who complete a single major in Biology will have a broad introduction to these topics, along with the opportunity to specialize in aspects of biology that particularly interest them. Many courses provide an opportunity for independent research projects. The Biology department offers two Specializations, one in Conservation Biology, the other in Health Sciences. As well, there is a Biochemistry & Molecular Biology program, shared with the Chemistry department. Many students choose to do joint major degrees with other departments or programs, including Environmental & Resource Science/Studies, Chemistry, Geography, Anthropology and Psychology, among many others.

Notes

- *Biology 105* does not serve as a prerequisite for any upper-level Biology course.
- All 300- and 400-level courses except *Biology 401, 402D, 440, 445* and *490* (which require prior completion of 15 credits) may be taken in either the third or the fourth year of the Honours program, and some will be offered only in alternate years.
- Students in second year who wish to register in a course beyond the 200-level may if they have the necessary prerequisites; otherwise they must obtain the permission of instructor.
- A student may take a maximum of two credits in reading courses in Biology (1 credit in *Biology 390, 391H, 392H* and *393H* plus one credit in *Biology 490, 491H, 492H* and *493H*), but may not take both in the same academic session.
- If fewer than 10 students enrol in a course the format may be changed. If fewer than five students enrol in a course, it may be cancelled.
- Students planning to take *Biology – Environmental & Resource Science 216H* or *217H* should consider taking *Mathematics – Statistics 150* or *155H* in their first year.
- Any course involving work with live vertebrate animals requires the Animal Care Course which is described on p. 24 of the calendar. The Animal Care Course requirement is indicated in some course descriptions but may also apply to others. Check with the department secretary or course instructor if in doubt.
- Charges may be made for field trips in some courses.
- Transfer students should consult with the chair of the department before selecting courses.
- For the program in Biochemistry & Molecular Biology, see the Biochemistry & Molecular Biology section of the calendar.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in Biology, if they have met the requirements for the joint-major General degree (see below).

BACHELOR OF SCIENCE PROGRAM IN BIOLOGY

- see p. 22 for requirements which apply to all undergraduate degree programs.
- The curriculum of the Biology department has been designed to allow students in the single-major or joint-major programs to specialize in one or more approaches to biology:
A) physiology and medical biology, B) plant biology, C) animal biology and/or D) ecology and evolution. Most of the upper-level courses offered by the department are included in one or two of four categories, representing these four approaches.
- *Biology 105* can count as a Biology course for a major or joint-major in Biology. However, it does not fulfill any of the category requirements for a Biology major.
- Courses appearing in two or more categories in the list below may be counted in only one of those categories.
- Further specialization is possible through supervised independent study in *Biology 390, 391H, 392H, 393H, 401, 402D, 440, 445, 490, 491H, 492H* and *493H*.
- Cross-listed courses, which are not on the list, may be counted as Biology credits but they do not fulfill category requirements: they are considered non-category credits.

A		B	C	D	
Physiology and Medical Biology		Plant Biology	Animal Biology	Ecology and Evolution	
205H	408H	201	210H	202	350H
206H	410H	218H	211H	205H	361H
207H	411H	219H	309H	216H	362H
304H	416H	319H	310H	217H	414H
307H	419H	321H	314H	303H	415H
310H	432H	324H	336H	305	417H
325H	445	327H	383H	306H	418H
326H	460H	328H	384H	314H	424H
335H	462H	329H	414H	321H	439H
383H	484H		415H	327H	440
384H	375H		416H	328H	460H
231H	426H		417H	336H	
			418H		

- *Mathematics 110, Mathematics – Statistics 150* or *Mathematics 105H* and *Mathematics – Statistics 155H* are highly recommended for fulfilling the University requirement of one credit in Mathematics in the B.Sc. program. (Psychology majors and joint majors may substitute *Psychology 215*.)
- The following courses are also recommended for students planning to major in *Biology*: *Chemistry 100, 212, 231H, Environmental & Resource Science 100, 350, Geography 104H, Mathematics 105H, Mathematics 135H, Mathematics – Statistics 155H, and Physics 100*.
- It is recommended that courses taken in the fourth year of the Honours program be beyond the 200-level.
- Students intending to take the Graduate Record Examinations (GRE) Advanced Biology Test, required by some Canadian and American Graduate Schools, should include the following courses in their program: *Biology 205H, 206H, 207H, 361H* and *362H, Biology – Environmental & Resource Science 202* or both *216H* and *217H, Chemistry 100* and *Mathematics 110*.
- Students intending to pursue graduate studies should take *Biology 401* or *402D*.
- For the Specializations in Conservation Biology and in Health Sciences, see below.

The single-major Honours program. At least 10 credits in Biology. The program must include:

- *Biology 102H and 103H*
- 9 additional credits, including 1 credit from each category and no more than 1 non-category credit
- *Chemistry 100*
- 1 credit in Mathematics

The joint-major Honours program. At least 7 credits in Biology. The program must include:

- *Biology 102H and 103H*
- 6 additional credits in Biology, including at least 1 credit from each of 2 different categories and no more than 1 non-category credit
- 1 credit in Mathematics

The single-major General program. At least 6 credits in Biology. The program must include:

- *Biology 102H and 103H*
- 5 additional credits in Biology, including at least 1 credit from each of 3 different categories and no more than 1 non-category credit
- *Chemistry 100*
- 1 credit in Mathematics

The joint-major General program At least 5 credits in Biology. The program must include:

- *Biology 102H and 103H*
- 4 additional credits in Biology, including 1 credit from one of the 4 categories, 2 half-credits from any of the other 3 categories, 1 additional credit from any category and no more than 1 non-category credit
- 1 credit in Mathematics

SPECIALIZATION IN CONSERVATION BIOLOGY

Telephone: (705) 748-1011 ext. 1424

Fax: (705) 748-1285

E-mail: biology@trentu.ca

Web: www.trentu.ca/biology

Program Co-ordinators

E. Nol, B.Sc. (Michigan), M.Sc. (Guelph), Ph.D. (Toronto), Biology department; **J. Schaefer**, B.Sc. (McGill), M.Sc. (Manitoba), Ph.D. (Saskatchewan), Biology department.

The Specialization in Conservation Biology is available to students in the Honours program in Biology. The Specialization is designed to provide students with theoretical and practical training in the conservation of living organisms. It capitalizes, in part, on the expertise and activities of collaborating regional, provincial or national agencies such as the Ministry of Natural Resources, Rare Breeds Canada, and the Otonabee Regional Conservation Authority. A distinctive feature of the Specialization is the opportunity for an internship with a collaborating agency.

The transcripts of students graduating with an Honours degree in Biology, who have successfully completed the requirements of the Specialization, will contain the notation "with a Specialization in Conservation Biology."

Biology 440 – Internship in Conservation Biology

An apprenticeship at a collaborating agency working in biological conservation. Students will assist in a project pertaining to research and conservation of living things for the equivalent of approximately six hours per week. Evaluation is based on a written appraisal from the agency, as well as a written report and an oral presentation. Open to Honours students in Biology after the completion of at least 15 credits. *Biology 440* may be taken jointly with *Biology 401* where the project warrants, but the student may not receive credit for a single-credit thesis in another department or program. Enrolment is limited and is competitive. Students must apply in the academic year before enrolment in the course. Applications can be obtained from the Biology office. Prerequisite: *Biology – Environmental & Resource Studies 202* or both *216H* and *217H*, *Biology 362H*; Co-requisite: *Biology 439H*. *J. Schaefer*

Other courses. In addition to *Biology 440*, the Specialization in Conservation Biology consists of 5.5 credits in Biology and Environmental & Resource Science, including:

- *Biology 362H*, *439H* and *Biology – Environmental & Resource Science 202* or both *216H* and *217H*

- 0.5 credits on a topic related to Conservation Biology from *Biology 390, 391H, 392H, 393H, 490, 491H, 492H or 493H*
- 3 credits from the following: *Biology 305, 309H, 314H, 321H, 324H, 327H, 328H, 350H, 361H, 385H, 386H, 387H, 388H, 411H, 414H, 415H, 417H, 418H*
Environmental & Resource Science 316H, 320, 335H, 351H, 424H, 452H

SPECIALIZATION IN HEALTH SCIENCES

Telephone: (705) 748-1011 ext. 1424
Fax: (705) 748-1205

E-mail: biology@trentu.ca
Web: www.trentu.ca/biology

Program Co-ordinators

C. Kapron, B.Sc. (Waterloo), M.Sc., Ph.D. (McGill), Biology department; **J. Sutcliffe**, B.Sc. (Waterloo), M.Sc., Ph.D. (Toronto), Biology department (*on leave 2004-2005*)

The Specialization in Health Sciences is available to students in the Honours B.Sc. programs in Biology or in Biochemistry & Molecular Biology. It is intended for students who are interested in a career related to health care or research. The Specialization will give students training in the practical, as well as the theoretical, aspects of a diversity of medically related topics. A distinctive feature of the Specialization is the opportunity for an internship with a collaborating agency or individual sponsor in a Health Science setting.

The transcripts of students graduating with an Honours degree in Biology or Biochemistry & Molecular Biology, who have successfully completed the requirements of the Specialization, will contain the notation "with a Specialization in Health Sciences."

Notes

- The Specialization is open to students in the Honours programs in Biology or in Biochemistry & Molecular Biology who have earned a minimum of 15 credits.
- Students who choose courses in non-science departments should keep in mind that a university-level mathematics course is required to obtain a B.Sc.
- Many medical schools require General Biology, General Chemistry, Physics and a Humanities or Social Sciences course for admission. Students should consult each school for specific requirements.

Biology 445 – Internship in Health Sciences

Students must successfully complete *Biology 445* which consists of a placement in a medically related setting for the equivalent of six hours a week for 24 weeks. Students are required to write a report on their placement. *Biology 445* is open to students who have earned at least 15 credits and achieved a cumulative average of at least 75%. Prerequisite: *Biology 205H, 206H, 207H and Chemistry 100*. Co-requisites: *Biology 383H and 384H*. Enrolment is limited and competitive. Students are eligible to apply in the year before anticipated enrolment in the course. Application forms can be obtained from the Biology office; they must be submitted to the course co-ordinator before April 1. Students may not apply retroactively. *C. Kapron and L. Kerr*

Other Courses. In addition to *Biology 445*, the Specialization in Health Sciences consists of 8 credits, including:

- *Biology 102H, 103H, 205H, 206H, 207H, 383H, 384H and Chemistry 100*
- 0.5 credit on a topic related to Health Sciences from *390 or 490* series reading courses in Biology, Chemistry, Environmental & Resource Science or Psychology
- 3 credits from the following:
Anthropology 344H, 346H, 348, 442H
Biology 211H, 304H, 307H, 310H, 325H, 326H, 335H, 408H, 411H, 416H, 419H, 432H, 484H
Chemistry 231H, 330, 434H, 435H
Economics – Canadian Studies 384H
Environmental & Resource Science 240, 313H, 370, 412H
Psychology 343H, 372H, 375H, 376H, 435H
Sociology 363

Biology 102H/FA – Current issues in biology I

An examination of the biological principles underlying questions concerning biodiversity and evolution. The course will begin with a prolonged discussion of biodiversity and the implications of its loss. This will be followed by consideration of the evolution of life on earth, exploring the underlying processes of natural selection and ecological interactions. Prerequisite: OAC/U Biology or its equivalent or permission of the department. Excludes *Biology 101*. Two lectures weekly and alternating three-hour and 1.5-hour laboratory weekly. *Staff*

Biology 103H/WI – Current issues in biology II

An examination of the biological principles underlying questions of biomedical interest. The course will consider topics such as reproductive technology, physiological adaptation to extreme environments, the cellular basis of disease, and genetic engineering and biotechnology. Prerequisite: OAC/U Biology or its equivalent or permission of the department. Excludes *Biology 101*. Two lectures weekly and alternating three-hour and 1.5-hour laboratory weekly. *M. Berrill and staff*

Biology 105 – Human anatomy and physiology

A comprehensive survey of the structures and functions of the human organ systems. Topics include studies of the integumentary, skeletal, nervous, endocrine, muscular, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems. Emphasis is on the importance of homeostasis and how it is maintained. Prerequisite: OAC/U Biology and Chemistry. Open only to students enrolled in the B.Sc. Nursing program or by special arrangement with the instructor. Two hours of lecture weekly, two-hour laboratory fortnightly. *I. Brenner*

Biology 205H/WI – Introduction to genetics

This course will develop a basic understanding of genetics: Mendelian inheritance, chromosome structure, genetic recombination, mutation, the structure of DNA, the nature of genes and current topics in genetics will be investigated using examples from plants, animals, insects, bacteria, fungi and viruses. Prerequisite: *Biology 102H* and *Biology 103H*. Two lectures weekly and three-hour laboratory fortnightly. *P. Wilson*

Biology 206H/FA – Molecular biology

Fundamental concepts in molecular biology with emphasis on the exploration of structure, function, and cellular synthesis of DNA and RNA. Techniques in recombinant DNA technology as well as their applications in biomedical, forensic, and pharmaceutical research will also be discussed. Basic techniques in molecular biology as well as scientific calculations will be introduced in the laboratory portion of the course. Prerequisite: *Biology 103H* and *Chemistry 100*. Two lectures weekly and three-hour laboratory fortnightly. *J. Yee*

Biology 207H/WI – Cell biology

An introduction to cell structure and function, including the organization, physiology, architecture and interactions of cells. Cellular mechanisms of differentiation, development, cancer and the immune response will be explored. Prerequisite: *Biology 103H*. Co-requisite: *Chemistry 100*. Two lectures weekly and three-hour laboratory fortnightly. *C. Kapron*

Biology – Environmental & Resource Science – Geography 208H – Natural science statistics
(see Geography)**Biology 210H/FA – Biology of invertebrates**

An introduction to the diversity of invertebrate animals emphasizing their evolutionary relationships and focusing on functional, behavioural and ecological aspects of their biology. Prerequisite: *Biology 102H* and *103H* (*Biology 102H* may also be taken as a co-requisite), or permission of instructor. Two lectures and one three-hour laboratory weekly. *T. R. Matthews*

Biology 211H/FA – Vertebrate zoology

The evolution, ecology, life history, structural and functional morphology of the vertebrates. Prerequisite: *Biology 102H* and *Biology 103H*. Two lectures and three-hour laboratory weekly with required dissections. *G. Burness*

Biology 213H/FA – Pharmacology for health sciences

This course is open only to students enrolled in the B.Sc.N. program. It is a comprehensive syllabus emphasizing an overview of foundational drug classifications and pharmacotherapeutic effects on the body, and a discussion of the mechanisms by which drugs enter and leave the body. Prerequisite: OAC/U Biology and Chemistry, *Biology 105*, *Chemistry 155H* (or co-requisite). Two-hour lecture and one-hour seminar weekly. *J. Mackie*

Biology 214H/FA – Microbiology for health sciences

This course is open only to students enrolled in the B.Sc.N. program. The course is an introduction to the study of infectious diseases commonly encountered in health care and the principles governing the prevention and control of these diseases. Topics will include a discussion of bacteria, viruses and fungi and their associated diseases. An emphasis will be placed on infection control principles and practices. Prerequisite: OAC/U Biology and Chemistry; *Biology 105*; *Chemistry 155H*. Two-hour lecture and one-hour seminar weekly. G. Mitchell

Biology – Environmental & Resource Science 216H/FA – Population ecology

This course examines the interactions of organisms and populations with each other and their environments. Topics include: population dynamics, predator-prey interactions, dispersal, physiological ecology and conservation of populations. Both theoretical and applied approaches to problem solving in ecology will be covered. Prerequisite: *Biology 102H*. Excludes *Biology – Environmental & Resource Science 202*. Highly recommended: *Mathematics – Statistics 150*. Two-hour lecture weekly and three-hour laboratory fortnightly. J. Schaefer

Biology – Environmental & Resource Science 217H/WI – Community ecology

This course examines ecological communities and ecosystems. Topics include: how communities are classified, factors that shape communities, energy and nutrient flow in ecosystems, and how ecosystems respond to stress. Different ecological communities and ecosystems will be surveyed, with an emphasis on North American examples. Prerequisite: *Biology 102H*. Excludes *Biology – Environmental & Resource Science 202*. Highly recommended: *Mathematics – Statistics 150*. Two-hour lecture weekly and three-hour laboratory fortnightly. D. Lasenby, E. Nol

Biology 218H/FA – Plants and their ancestors

This course examines the story of the evolution of plants from the first photosynthetic organisms to colonize the earth to the tremendous diversity of flowering plants, through the study of modern plants, their living ancestors and the fossil record. Excludes *Biology 201*. Two lectures and a three-hour laboratory weekly. Prerequisite: *Biology 102H*. Recommended: *Biology 103H*. C. D. Maxwell

Biology 219H/WI – Plants in action

Due to a sessile nature and exceptional demands, plant functioning is unique and highly dynamic. With emphasis on the flowering plants, this course provides an introduction to plant anatomy, physiology and molecular biology. It examines the mechanisms by which plants work and survive in their role as energy providers to the biosphere. Excludes *Biology 201*. Two lectures and a three-hour laboratory weekly. Prerequisite: *Biology 102H* and *Biology 103H*. Highly recommended: *Biology 218H*. N. Emery

Biology – Chemistry 231H – Introduction to biochemical concepts (see Chemistry)**Biology – Environmental & Resource Science 240 – Environmental microbiology** (see Environmental & Resource Science/Studies)**Biology 261H/FA – Biology for elementary teachers I: Biodiversity and ecology**

This course introduces the basic concepts related to community ecology and biodiversity, using both local and global examples. It provides experience in experimental design and data analysis. Intended primarily for potential elementary teachers, it cannot be used for credit toward any major in Biology, and is not available for students enrolled in, or with credit for, *Biology 102H/103H*. Two hours of lecture and two hours of laboratory/workshop per week. Staff

Biology 262H/W – Biology for elementary teachers II: Form and function

This course introduces the biology of genes, cells, tissues and organs, with special emphasis on human examples, both normal and abnormal. It provides experience in experimental design and data analysis. Intended primarily for potential elementary teachers, it cannot be used for credit toward any major in Biology, and is not available for students enrolled in, or with credit for, *Biology 102H/103H*. Two hours of lecture and two hours of laboratory/workshop each week. M. Berrill and C. Kapron

Biology – Environmental & Resource Science 270 – Environmental science for teacher education (see Environmental & Resource Science/Studies) (Cannot be used for credit toward any major in Biology)

Biology – Environmental & Resource Science 303H/FA – Research design and data analysis

Practical instruction in design of research projects, with emphasis on appropriate statistical analyses through the use of statistical software; some instruction in appropriate presentation of results. Prerequisite: *Mathematics – Statistics 150* or *Biology – Geography – Environmental & Resource Science 208H* and at least one second-year Biology credit. Lecture, two-hour workshop and a one- or two-hour laboratory weekly. *E. Nol*

Biology 304H/FA – Histology

A study of the four basic animal tissue types and how these tissues are subsequently organized into organ systems. An important emphasis will be the relation of tissue form to function. Lab will include a practical component involving hands-on experience in methods of tissue fixation, embedding, sectioning, staining and digital photography. Prerequisite: *Biology 103H*. Highly recommended: *Biology 207H* or *Biology 211H*. Two lectures and three-hour lab weekly.

Biology 305 – Limnology

Ecology of freshwater ecosystems. Biology, geochemistry and physics of freshwater lakes, rivers and streams. Prerequisite: *Biology – Environmental & Resource Science 202* or both *216H* and *217H*. Recommended: *Chemistry 100*. Excludes *Biology 306H*. Two lectures weekly, three-hour lab fortnightly, occasional workshops, and field trips for which there will be no charge. *D. C. Lasenby*

Biology 307H/WI – Electron microscopy

The biological applications of transmission and scanning electron microscopy. Course emphasizes practical instruction in use of microscopes and preparation of biological materials for the electron microscope. Prerequisite: *Biology 304H*. Excludes *Biology 405*. Two lectures, demonstrations and tutorials weekly. There will be a maximum charge of \$30 to cover field trips and photographic printing.

Biology 309H/FA – Biology of insects

An introduction to the organization and diversity of insects. Lectures emphasize insect physiology, ecology and behaviour. Prerequisite: minimum of 10 credits, including *Biology 102H* and *Biology 103H*. Highly recommended: *Biology 210H*. Two lectures weekly, three-hour lab or tutorial most weeks. An insect collecting kit for making required insect collection will be available for cash deposit from Biology department in April preceding the beginning of the course.

Biology 310H/WI – Medical entomology

A study of medically important insects and the disease conditions they produce in humans and animals. Prerequisite: minimum of 10 credits including *Biology 102H* and *Biology 103H*. Highly recommended: *Biology 309H*. Two lectures weekly, three-hour lab or tutorial most weeks.

Biology 314H/FA – Fish ecology

The biology of fishes with emphasis on biotic and abiotic factors that affect their life histories, distribution, population dynamics, feeding and growth. Prerequisite: *Biology – Environmental Resource Science 202* or both *216H* and *217H*. Highly recommended: *Mathematics – Statistics 150*, *Biology – Environmental Resource Science – Geography 208H*. Two hours of lectures weekly and three hours of laboratory, fieldwork or workshop fortnightly. *M. G. Fox*

Biology 319H/FA – Wild plants of Ontario

An introduction to the flora of Ontario, with emphasis on the recognition of common flowering plant families. Lecture topics include the history and principles of taxonomy, and the conservation of rare plant species. A major plant collection is made during the summer months, instructions for which are available in April. One lecture and three-hour lab weekly. Prerequisite: *Biology 201* or *218H*. *C. D. Maxwell*

Biology 321H/FA – Plant ecology

A study of the relationships of plants to one another and to their environment. Prerequisite: *Biology 218H* and *219H* (or *Biology 201*) and *Biology 216H* and *217H* (or *Biology 202*) or permission of instructor. Two lectures and three-hour laboratory or field studies weekly.

Biology 324H/WI – Biology of the algae and cyanobacteria

An introduction to these important groups of plants which, though often considered a nuisance, are also one of the world's important natural resources. Their ecological role in both the marine and freshwater environments will be emphasized as well as their economic importance. Prerequisite: *Biology 102H*. Lecture, three-hour laboratory and seminar or tutorial weekly.

Biology 325H/FA – Microbiology

An introductory course in microbiology with consideration given to the diversity of microscopic forms, their presence in various habitats and their impact on humanity. This course places heavy emphasis on laboratory work. Prerequisite: *Biology 102H* and *Biology 103H*. Recommended: *Biology 206H* and *Biology 207H*. Two-hour lecture/tutorial and three-hour laboratory weekly. C. Brunetti

Biology 326H/WI – Advanced microbiology

This course will examine the impact of microorganisms on scientific research, the environment, and human health and disease. Particularly emphasis will be placed on new or emerging areas of microbiology such as analysis of sequenced microbial genomes, phylogeny and evolution of eukaryotes and prokaryotes, and microbial ecology. Prerequisite: *Biology 325H*. Two hours of lecture and a three-hour lab weekly. C. Brunetti

Biology 327H/WI – Biology of weeds and invasive aliens

The study of reproductive strategies of plants, with particular emphasis on the success of weedy species and invasive aliens. Seed production, dispersal, germination, establishment and vegetative means of reproduction will be examined. Prerequisite: *Biology 201* or one of *218H* or *219H*. One lecture and laboratory or project time equivalent to three hours per week. Tutorial fortnightly.

Biology 328H/WI – Physiological ecology of plants

An examination of how plants physiologically acclimate, adapt or suffer in response to their environment. Prerequisite: *Biology 102H* and *Biology 201* or *219H* or permission of instructor. Background knowledge of plant anatomy, ecology and physiology will be assumed. Highly recommended: *Biology 218H*. Also recommended: *Biology – Environmental Resource Science 202* or both *216H* and *217H*, *206H*, *207H*. Two lectures and lab/seminar or tutorial weekly. N. Emery

Biology 329H/WI – Plants in society

An examination of the importance of plants in society will include an in-depth look at the role of plants in human population growth and topics such as biotechnology, food safety, medicines and commercial products. Prerequisite: *Biology 102H*. Highly recommended: *Biology 201*, or one of *218H*, *219H*; background knowledge of plant anatomy, ecology and physiology will be assumed. Also recommended: *Biology – Environmental & Resource Science 216H* and *217H*, *202*, *206H*, *207H*. Two lectures weekly, seminar weekly.

Biology – Chemistry 330 – General biochemistry (see Chemistry)**Biology 335H/WI – Advanced molecular biology**

An introduction to mechanisms controlling gene expression and applications of recombinant DNA technology to this field of study will be discussed. Topics will include the transcription initiation and post-transcriptional regulation, structure of transcription factors, and specific examples of genetic switches in both prokaryotes and eukaryotes. Discussion and analysis of journal articles on gene expression research will take place during the seminar portion of the course. Prerequisite: *Biology 206H*. Two lectures weekly and seminar fortnightly. J. Yee

Biology – Psychology 336H/WI – Behavioural ecology

An introduction to the ecological, physiological, and evolutionary mechanisms which influence the behaviour of animals, with particular emphasis on kin selection and coevolution. Prerequisite: *Biology – Environmental & Resource Science 202* or *216H*. Two lectures and one discussion session per week, one field trip. D. Murray

Biology – Anthropology 341 – Human osteology and forensic anthropology (see Anthropology)**Biology – Anthropology 344H – Human genetics, growth and adaptability** (see Anthropology)**Biology – Anthropology 346H – Biocultural explorations of human lifecourse** (see Anthropology)**Biology – Anthropology 347H – Primate behaviour** (see Anthropology)**Biology – Anthropology 349H – Primate evolution** (see Anthropology)**Biology 350H/FA – Biogeography**

Major patterns of distribution and abundance of animal and plant species as affected by geological, ecological and evolutionary processes. Prerequisite: *Biology – Environmental & Resource Science 202* or both *216H* and *217H*. Two hours of lectures weekly, workshop fortnightly. J. Schaefer

Biology 361H/FA – Evolution

A study of the pattern of the evolution of life over the past billion years focusing on key events and transitions, and the underlying processes that made them happen. Prerequisite: at least one 200-level Biology credit. Two lectures weekly, lab or workshop weekly. *M. Berrill*

Biology 362H/FA – Population genetics

This course introduces students to microevolutionary processes. A study of sources of genetic variation, genetic composition of populations and forces that determine and change that composition. Laboratory component will be in the form of group projects on population genetics of *Drosophila* or *Daphnia*. Prerequisite: *Biology 205H*. Two lectures and three-hour laboratory weekly. *P. Wilson*

Biology – Psychology 375H – Principles of the nervous system (see Psychology)**Biology – Psychology 376H – Neuropsychology** (see Psychology)**Biology 383H/FA – Animal physiology I**

The processes of digestion, osmoregulation and excretion, circulatory systems and gaseous exchange, muscles, respiration, metabolism and their control are considered. The course uses a comparative approach first discussing the basic principles of the physiology of these processes and then examining the means whereby different organisms perform them. Prerequisite: *Chemistry 100*, *Biology 207H* and Animal Care Course. Highly recommended: *Chemistry 231H* or *Chemistry 212*. Two lectures and three-hour laboratory weekly. *T. R. Matthews*

Biology 384H/WI – Animal physiology II

Fundamental concepts in sensory, endocrine and reproductive physiology. Prerequisite: *Chemistry 100*, *Biology 207H* and Animal Care Course. Two lectures and three-hour laboratory weekly. *G. Burness*

Biology 385, 386H, 387H, 388H – Field courses

Spring and Summer courses are offered through the Ontario Universities Program in Field Biology.

Biology 389, 389H – Community-based research project

Students are placed in research projects with community organizations in the Peterborough area. Each placement is supervised jointly by a faculty member and a representative of a community organization. For details see "Community-Based Education Program" (p. 206). *C. Kapron*

Biology 390, 391H, 392H, 393H – Reading course

This course provides an opportunity for more intensive or broader study of a selected topic under the guidance of a faculty member. Open to students who have earned at least two credits in Biology in courses taught by members of the Trent Biology department and have achieved a cumulative average of at least 75% in Biology courses. Application forms are available from the Biology Office. All University deadlines as specified in the University Calendar apply. These courses may not be taken in the same academic session as *Biology 490*, *491H*, *492H* and *493H*. *T. R. Matthews and staff*

Biology 395, 396H, 397H, 398H – Special topics in biology

These courses are not established as part of the regular Biology program and are offered when staffing is available. The topics are in the fields of interest and expertise of the instructor. If offered, the courses will be advertised by the Biology department.

Biology 401, 402D – Research thesis

Biology 402D is a double credit in Biology. *Biology 401* is a single credit involving the same thesis as submitted to the other department/program in a joint-major or with *Biology 440*. In this research course students will investigate a specific field of interest under the guidance of a faculty member. The Animal Care Course is a prerequisite, if applicable. Highly recommended: *Biology 303H*. Open to students who have earned at least 15 credits, achieved a cumulative average of at least 75% in Biology courses, and obtained the agreement of a faculty member to supervise the project. (In some cases, it may be possible to take *Biology 402D* with a cumulative average of 70% in Biology courses if recommended by a faculty member willing to supervise it.) To be accepted into a joint thesis course the student must meet the requirements of both programs. *D. Lasenby and staff*

Biology – Geography – Environmental & Resource Science 406H – The geochemistry of natural waters (see Environmental & Resource Science/Studies)**Biology – Geography – Environmental & Resource Science 407H – The fate of contaminants in the aquatic environment** (see Environmental & Resource Science/Studies)

Biology 408H/FA – Developmental biology

An exploration of the cellular and molecular bases of embryonic development. Emphasis will be placed on how the intricate and diverse processes of embryogenesis are dependent on common mechanisms, including cell division, cell death, adhesion, migration, gene expression, and intra- and inter-cellular signalling. Prerequisite: *Biology 207H* and Animal Care Course. Two hours of lectures weekly and three-hour laboratory or seminar weekly. C. Kapron

Biology 411H/FA – Infectious disease biology

An examination of current concepts of the nature, development and spread of pathogenic agents. Topics include emerging disease, drug resistant bacteria, vaccines, pathogen evolution and virulence. Prerequisite: Minimum of 10 credits, at least one of *Biology 207H* or *325H*. Two lectures weekly, 1.5-hour tutorial/workshop fortnightly. J. Sutcliffe

Biology – Environmental & Resource Science 412H – Environmental carcinogenesis

(see Environmental & Resource Science/Studies)

Biology 414H/FA – Ornithology

An introduction to the study of birds. Course covers broad areas in ornithology including field identification, systematics, ecology, behaviour, anatomy, physiology, management and conservation. Prerequisite: at least one 200-level Biology credit. Two lectures weekly, one two-hour laboratory and workshop most weeks. Mandatory full week-end field trip in mid-September at cost to student. E. Nol

Biology 416H/FA – Immunology

An introduction to the immune system, including a discussion of the organs, cells and molecules that constitute, as well as regulate, the immune system. Health-related aspects of the immune system, such as immunodeficiency, tumour immunology and allergies will also be explored. Prerequisite: *Biology 207H*. Two lectures and one-hour seminar weekly. C. Kapron

Biology 417H/WI – Marine ecology in the 21st century

An assessment of the impact of current and predicted environmental changes on the structure and function of marine coastal and oceanic communities. Prerequisite: completion of at least 10 credits including *Biology – Environmental & Resource Science 202* or both *216H* and *217H*. Recommended: *Biology 210H*. Two lectures and two-hour workshop weekly. M. Berrill

Biology 418H/WI – Mammalogy

An exploration of the evolution, anatomy, ecology, behaviour, and management of terrestrial mammals. Labs will be devoted to adaptive radiations and species identification, with emphasis on Canadian forms. Prerequisite: minimum of 10 credits including *Biology 211H* and one of *Biology 216H* or *Biology 217H*. Two lectures and three-hour lab weekly. J. Schaefer

Biology 419H/WI – Biology of physical activity

This course will examine the physiological and biochemical adaptations to acute and chronic exercise with specific emphasis placed upon the oxygen transport system. The effects of a variety of conditions including age, gender, environmental conditions and disease on these adaptations will also be considered. Prerequisite: *Biology 383H*. Two-hour lecture and lab/seminar or tutorial weekly. I. Brenner

Biology – Environmental & Resource Science 424H – Fisheries assessment and management

(see Environmental & Resource Science/Studies)

Biology 426H/WI – Virology

This course discusses current virology topics with a particular emphasis on the impact of viruses on society. The biology and biochemistry of animal viruses will be examined with analysis of selected topics including emerging viral diseases, viral gene therapy, viruses and immune system, viruses and cancer, and bioterrorism. Prerequisite or co-requisite: *Biology 325H* or permission of instructor. Two hours of lecture and a three-hour lab or seminar weekly. C. Brunetti

Biology 432H/WI – Pharmacology

An introduction to human pharmacology. This course is divided into two sections: pharmacokinetics and pharmacodynamics. Drugs to be studied include mainstream medications such as antibiotics, ethanol, and drugs used in the treatment of pain, high blood pressure, asthma, ulcers and depression, as well as a brief discussion of alternative medications. Two lectures and one seminar per week. Prerequisite: *Chemistry 100*, *Biology 207H* and *Biology 383H* or *384H*.

J. Mackie

Biology – Chemistry 434H – Protein chemistry (see Chemistry)**Biology – Chemistry 435H – Bioinorganic chemistry** (see Chemistry)

Biology – Environmental & Resource Science 439H FA – Conservation biology

Focuses on the causes and consequences of reductions to biodiversity and the design of strategies to counterbalance these reductions. The course attempts to provide a balanced overview of the discipline outlining both biological and human oriented dimensions. Prerequisite: *Biology – Environmental Resource Science 202* or both *216H* and *217H*. Two hours of lectures and seminar weekly. *J. Schaefer*

Biology – Chemistry 457D – Double credit project course in biochemistry (see Chemistry)**Biology 460H/WI – Applied molecular genetics**

This seminar-based evening course introduces students to the application of DNA profiling to forensics, medical genetics and natural resource management (molecular ecology/conservation genetics). Prerequisite: *Biology 362H* or permission of instructor. *P. Wilson*

Biology 462H/WI – Biotechnology, genetic engineering and public policy

This course covers a range of current and controversial biotechnology and genetic engineering topics in relation to public policy. Some of the in-class sessions involve debates in which students take different perspectives or role-play. Topics covered: human genetic engineering, somatic and germline gene therapy and genetically modified foods. Prerequisite: a minimum of 15 university credits. *B. White*

Biology – Psychology 484H/WI – Neuroendocrinology

Explores the interactions between the central and endocrine systems, focussing on the hypothalamic-pituitary-adrenal axis. The course will examine the control of hormone release, including neurotransmitter modulation and steroid feedback during both homeostatic and stressor-induced states. Also, the interaction among stressors, behaviour, endocrine system and disease will be considered. This course will be seminar based, and will meet weekly for a two- to three-hour period. Prerequisite: *Biology 384H* or *Psychology – Biology 375H*. *L. Kerr*

Biology 490, 491H, 492H, 493H – Reading course

Provides an opportunity for more intensive or broader study of a selected topic under the guidance of a faculty member. Open to students who have earned at least five Biology credits and have achieved a cumulative average of at least 75% in Biology courses. Application forms are available from the Biology Office. These courses may not be taken in the same academic session as *Biology 390, 391H, 392H* and *393H*. *T. R. Matthews and staff*

Biology 495, 496H, 497H, 498H – Special topics in biology

Not established as part of the regular biology program. Offered only when staffing is available. The topics are in the fields of interest and expertise of the instructor. If offered, these courses will be advertised by the Biology department.

Business Administration

Telephone: (705) 748-1011 ext. 1492

Fax: (705) 748-1409

E-mail: businessadmin@trentu.ca

Web: www.trentu.ca/businessadmin

Associate Professor and Director of the Program

J. Muldoon, B.Sc. (Brock), M.A. (Guelph), Ph.D. (McMaster)

Professor

B. M. Patterson, M.A., M.L.S. (Western Ontario)

Associate Professors

B. Ahlstrand, B.A. (Toronto), M.Sc. (L.S.E.), D.Phil. (Oxford); **J. Bishop**, B.A. (New Brunswick), M.A., M.B.A. (McMaster), Ph.D. (Edinburgh); **K. Campbell**, B.A. (Trent), M.B.A. (Toronto) (on leave 2004-2005); **D. Newhouse**, (Onondaga) B.Sc., M.B.A. (Western Ontario); **M. Quaid**, B.A. (McGill), M.Sc. (L.S.E.), D.Phil. (Oxford) (on leave Winter session); **A. Zohar**, B.A., M.E.S., Ph.D. (York)

Assistant Professor

R. Dart, B.Sc. (Trent), M.E.S. (York), Ph.D. (York)

Lecturers

A. El-Amir, B.A. (American University, Cairo), M.Sc. (Stirling); **M. Konopaski**, B.B.A. (Loyola), M.B.A. (Loyola)

Professor Emeritus

I. D. Chapman, B.Sc. (Liverpool), M.A. (Toronto)

The Business Administration program at Trent University is a four-year Honours program leading to a Bachelor of Business Administration (B.B.A.) degree. The program enables students to develop an understanding of the nature of organizational life, to communicate more effectively, to learn the techniques of financial and management accounting, and to gain knowledge of managerial planning and strategy formation. In addition to core business subjects, the program emphasizes communication and creative problem-solving skills that are essential to future career success. Small classes and a strong emphasis on group work provide an ideal environment in which to practice these skills. An essential feature of the program is its focus on the human side of organizations – to recognize and value the people who actually make organizations work. We encourage our students to develop a broad base of knowledge, an understanding of the larger social context of organizations, and the capacity for critical analysis.

Notes

- A minimum grade of C- (60%) in each of *Administration 100H, 101H, 102, and Economics 101H and 102H* is required for the B.B.A. and the joint-major Honours B.A. or B.Sc. in Business Administration.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- For the minor in Business Administration, see below.

BACHELOR OF BUSINESS ADMINISTRATION PROGRAM

- see p. 22 for requirements which apply to all undergraduate degree programs.
- The Business Administration program has introduced revisions to degree requirements. The new requirements are set out below. Students who entered the program before September 2004 should consult with the program office for information about course requirements.
- The Business Administration program offers a single-major Honours B.B.A. degree and a joint-major Honours B.A. or B.Sc. degree. There is no General degree.
- For the Specialization in Human Resource Management, see below.
- For the Specialization in Native Management & Economic Development, see p. 161.
- Students entering the program are strongly encouraged to have completed a secondary school senior level mathematics course in good standing.
- To remain in the program, students must maintain a cumulative average of B- (70%) in Administration courses completed (excluding electives). Students who are unable to maintain a B- average may transfer to a B.A. or B.Sc. program in another discipline, provided they can make up any degree requirements for a major.
- Students transferring into the program from another university or community college will have their transcript assessed by the Office of the Registrar for course credit transfer. Students transferring into the program from another department or program should consult with the Director of the program to confirm their course of study.
- Students entering the fourth year of their program are encouraged to review their course selection to ensure that all program requirements are met.

The single-major Honours program. At least 10.5 credits in Business Administration. The program must include:

Year 1

- *Administration 100H and 101H, 102, Economics 101H and 102H*
- 2 additional credits

Year 2

- *Administration 202H, 222H, 251H, Administration – Economics 220H and 225H*
- 2.5 additional credits

Year 3

- *Administration 310H, 320H, 330H and 350*
- 1.5 additional credits in Administration beyond the 200-level
- 1 additional credit

Year 4

- *Administration 400 and 410*
- 3 additional credits

The joint-major Honours program. At least 7 credits in Business Administration. The program must include:

- *Administration 100H and 101H, 102, 202H, 222H, 251H, 310H and 330H*
- *Administration 400 or 410*
- 1.5 additional credits in Administration beyond the 200-level
- *Economics 101H and 102H*

Minor in Business Administration

- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in Business Administration if they have successfully completed the courses listed below.
- No course in a student's major subject may be counted towards a minor in Business Administration.

The minor in Business Administration consists of at least 5 credits in Business Administration including:

- *Administration 100H, 101H, 102 and 251H*
- 1.5 additional credits in Administration beyond the 200-level
- 1 additional credit in Administration

SPECIALIZATION IN HUMAN RESOURCE MANAGEMENT

Telephone: (705) 748-1011 ext.1492

E-mail: businessadmin@trentu.ca

Fax: (705) 748-1409

Web: www.trentu.ca/businessadmin

Program Co-ordinator

J. Muldoon, B.Sc. (Brock), M.A. (Guelph), Ph.D. (McMaster)

The Specialization in Human Resource Management (involving 5.5 credits) is available to students in the B.B.A. program and the joint-major Honours B.A. and B.Sc. programs in Business Administration.

The transcripts of students graduating with an Honours degree who have successfully completed the requirements of the Specialization will contain the notation "with a Specialization in Human Resource Management."

Upon successful completion of the courses associated with the Specialization, students will have satisfied all of the course requirements for the "Certified Human Resources Professional Designation" and be eligible to write the National Knowledge Exam. By HRPPO standards, successful completion is a minimum grade of 70% in each course. In order to take the exam students must be an enrolled member of Human Resources Professionals Association of Ontario. This involves a monetary fee to the Association.

The "Certified Human Resources Professional Designation" is the only legislated certification for Human Resources Professionals in North America. Currently, the HRPPO requires the completion of nine subject areas. Currently Trent offers courses covering all of the subject areas.

Course Requirements

HRPPO Required Courses

Administration 102, 202H, 222H, 223H, 322H, 323H, 326H, 327H, 328H, and Economics 350H

SPECIALIZATION IN NATIVE MANAGEMENT & ECONOMIC DEVELOPMENT

See Native Management & Economic Development (p. 161).

Please consult the academic timetable to determine which of the courses listed will be offered in 2004–2005.

Administration 100H/WI – Contemporary issues in management and organization

This course provides a macro framework and context for the management discipline by examining a wide selection of issues which affect both the practice and the conceptualization of management and organization. Issues studied include globalization, information technology, demographics, diversity, sustainability and recent developments in management theory. Excludes *Administration 105*.

Administration 101H/FA – Management skills

This course examines the theory and practice of foundational skills important to management and organization in private, nonprofit and public sectors. The course has a focus on conceptual skills, communication skills, and interpersonal skills. Excludes *Administration 105*.

Administration 102 – Fundamentals of financial accounting

An introduction to the basic concepts and principles underlying financial accounting and to the practices followed in the preparation of financial statements for various forms of organizations. Focus on analysis and the ability to evaluate financial statements with the use of critical thought. Excludes *Administration 201H*.

Administration – Native Studies 190 – Introduction to management and management decision-making in contemporary Aboriginal organizations (see Native Studies)**Administration 202H/WI – Fundamentals of management accounting**

An introduction to the basic concepts and procedures used in the collection and manipulation of accounting data for on-going management decision-making. Topics include: manufacturing accounting; cost accounting and variance analysis; cost allocation; cost-volume-profit analysis; introduction to budgeting. Prerequisite: *Administration 102* or *201H* or permission of instructor.

Administration 208H/WI – Research methods in management and organizations

This course will focus on primary research and its use in problem solving and decision making. The course will cover qualitative and quantitative research design, planning, implementation and analysis. Research methods studied will include surveys, focus groups, analytical interviews, ethnography and action research. Prerequisite: *Administration 100H* and *101H*. Excludes *Administration 308H*.

Administration – Economics 220H – Introduction to statistics for economics and management (see Economics)**Administration 222H/FA – Organizational behaviour**

A conceptual and methodological analysis of how individuals react to their employment environment. Topics include motivation, job satisfaction, leadership, group dynamics and decision-making. Prerequisite: *Administration 100H* or *101H* or permission of instructor.

Administration 223H/WI – Human resource management

A survey of the concepts and practices in the major functions of human resource management. Topics include human resource forecasting, human rights, recruitment and selection, training and development, collective bargaining, performance appraisal and compensation. Prerequisite: *Administration 222H* or equivalent or permission of instructor.

Administration – Economics 225H – Introduction to mathematics for economics and management (see Economics)**Administration 251H/FA/WI – Organization theory**

An introduction to organization theory and an examination of specific organizations. Structure, process, environment and other aspects of organizations are approached through different frames, images and perspective analysis. Prerequisite: *Administration 100H* or *101H*. Excludes *Administration 250*.

Administration – Computer Studies 261H – Information systems for business and government (see Computer Science/Studies)**Administration – Computer Studies 262H – Structured systems analysis and design** (see Computer Science/Studies)**Administration – Native Studies 272 – Organizational behaviour in contemporary Aboriginal organizations** (see Native Studies)**Administration 310H/FA – Introduction to marketing (part I)**

This course examines the nature of the marketplace, and introduces basic strategy for adapting a marketing mix to the external environment. Students are required to review a current advertising campaign. The development of ideas through interactive learning is encouraged. Prerequisite: *Administration 100H* and *101H* or permission of instructor.

Administration 315H/WI – Introduction to marketing (part II): Advertising

Students will learn how advertisements work, the many techniques used in advertising, and the impact of advertisements on the individual and society. The power of image and identity ads are emphasized. Prerequisite: *Administration 310H*.

Administration 316H/FA – Branding

This course introduces the concept of branding and reviews the theoretical approaches guiding the management of the branding process. Students will learn, through tales of best practice, the tools to create and sustain brands via integrating strategic marketing with marketing communications. Prerequisite: *Administration 310H*. *Administration 315H* strongly recommended.

Administration 317H/WI – Introduction to retail marketing

This course will introduce students to retailing and to provide an understanding of the types of businesses, strategies, operations, formats and environments through which retailing are carried out. Prerequisite: *Administration 310H*.

Administration 320H/WI – Financial management

A survey of the fundamental concepts of corporate finance including: the tax environment, financial planning and control, working capital management, capital budgeting, the market for long term securities, debt and preferred shares, valuation and rates of return, and the cost of capital. These concepts will be applied to particular cases. Prerequisite: *Administration 100H*, *Administration 101H*, and *Administration 102* or *201H*.

Administration 322H/FA – Organizational selection in the Canadian workplace

This course is designed to help students understand the matching process that takes place between individuals and organizations. It seeks to understand the principles, issues, trends and legislative requirements affecting the recruitment and selection process. Prerequisite: *Administration 222H* and *223H*.

Administration 323H/WI – Leadership, training and development: a cross-cultural approach

This is an interdisciplinary course which deals with training and development from a cross cultural perspective. Particular attention is given to theory and results of relevant comparative and organizational research. Coaching, leadership and workplace diversity are important components of this course. Prerequisite: *Administration 222H* and *223H*.

Administration 325H/FA – The legal environment of business

The course will direct itself to the legal limits in which business operates and the laws with which business decisions must comply. The course utilizes actual case decisions and engages in examination of public and private law, and contemporary issues in terms of human rights, the Charter, administrative law, and employment issues in relation to the operation of a business. Prerequisite: *Administration 100H* and *101H* or permission of instructor.

Administration 326H – Perspectives on occupational health and safety

This course will focus on the legislative, technical, political, and social issues associated with the effective management of occupational health and safety concerns in contemporary Canadian organizations. Prerequisite: *Administration 222H* and *223H* or permission of instructor.

Administration 327H – Human resource planning

This course provides an understanding of the essential elements of the human resource planning process in organizations. Students will acquire knowledge in analyzing and programming for human resource requirements in the challenging environment of technological change, corporate repositions, rightsizing, cost containment, and pro-structuring improvements. Prerequisite: *Administration 222H* and *223H*.

Administration 328H – Motivation and compensation systems

The purpose of this course is to provide the student with an understanding of the process, issues and techniques involved in developing and administering compensation programs. Students will gain knowledge of the theoretical and applied aspects of the compensation function, the linkage between the compensation function and the overall management process. Prerequisite: *Administration 222H* and *223H*.

Administration 330H/FA – Personal ethics in organizations and business

An introduction to personal ethics in business and organizations: Major theories of ethics will be applied to case studies. Students will learn to identify ethical issues, to reflect on their own values, and to support their ideas with rational discussion. Prerequisite: *Administration 100H* and *101H* or permission of instructor. Excludes students who have completed *Administration 420* before 2002–2003.

Administration – Sociology 333H – Social organizations (see Sociology)

Administration 341H/WI – Communications in organizations

Verbal and non-verbal communication, social cognition, self-perception/concept, conflict theory, and their relevance to life in groups and organizations. Prerequisite: *Administration 100H* and *101H* or permission of instructor.

Administration 342H/FA – Entrepreneurship

This course will focus on issues and questions of entrepreneurship and entrepreneurs, covering issues ranging from the creation and development of business ideas and models to sociological, psychological and economic considerations of the origin and function of entrepreneurs in business as well as nonprofit and community settings. Prerequisite: *Administration 251H* or equivalent or permission of instructor. Excludes *Administration 340*.

Administration 343H/WI – New venture planning and design

This course is a hands-on exercise in business planning, business design, and business management with a focus on start-up and small business contexts. Primary course work will be undertaken in the development of a feasible business plan, including structural, financial, marketing and human resource considerations. Prerequisite: *Administration 102*. Excludes *Administration 340*.

Administration 344H/FA – Introduction to the third sector – nonprofit and non-governmental organizations

This course introduces the “third sector” – organizations variously characterized as nonprofit, NGO, social enterprise, civil society. Special focus will be on organizations in health, social development, environment and international development domains. Prerequisite: *Administration 100H* and *Administration 101H*, or permission of instructor. This course is intended for third and fourth year students only.

Administration 350 – Politics of budgeting

Planning, budgeting and control are studied from a critical, deconstructionist perspective. Extended attention is given to budgeting as the most pervasive, problematic enactment of planning and control, to achieve an integrative understanding of the political and behavioural. Prerequisite: *Administration 251H* or equivalent and *Administration 102*.

Administration 395, 396H, 397H, 398H – Special topics

For course details offered in a particular academic year please contact the program office.

Administration 400 – Strategic management

The course focuses on the definition and analysis of strategic problems faced by business and government organizations in adapting to changes in their internal and external environments. Students will be expected to draw broadly on knowledge and skills developed over their first three years. Restricted to single and joint major students with fourth-year standing in the B.B.A. degree program or joint-major Honours program.

Administration 410 – Management thought

The course is an exploration of the intersection and interconnectedness of management theory, personal values, attitudes and beliefs and managerial action. This guided exploration in this often invisible landscape is undertaken using a variety of material: classical and contemporary writings on management, art, literature and film. Restricted to single- and joint-major students with fourth-year standing in the B.B.A. degree program or joint-major Honours program.

Administration – Philosophy 420 – Business ethics

Examines the ethical issues encountered in business, corporations and other organizations, and the ethical issues raised by contemporary capitalism. The purpose of the course is to encourage identification and careful reflection on moral problems. Prerequisite: Fourth-year standing in the B.B.A. single- or joint-major Honours program (or standing in the Philosophy Honours or General degree with an Emphasis in Applied Ethics); *Administration 330H* or both *Philosophy 105* and *230*.

Administration 430 – Workplace diversity

This course addresses some of the workplace problems and opportunities that arise from the demographic diversity of the 1990s and beyond. The course will also examine the human resource implications of conducting business on an international basis. Prerequisite: *Administration 223H* or equivalent or permission of instructor. (Not offered in 2004-2005)

Administration 445H – Perspectives and practices for organizational sustainability

This course introduces students to the “triple bottom line” approach, defining sustainability in organizations as balanced progress towards economic performance, social justice and environmental quality. The course examines approaches and methods of the sustainability paradigm, and how they are used in a variety of areas. Prerequisite: *Administration 251H* or equivalent. Pre- or co-requisite: *Administration 350*.

Administration 482, 483H – Community-based research project

Students are placed in research projects with community organizations in the Peterborough area. Each placement is supervised jointly by a faculty member and a representative of a community organization. For details see “Community-Based Education Program” (p. 206). Prerequisite: Approval of Director of the program normally before early registration.

Administration 490 – Reading course

Open only to single and joint majors in the fourth year of the Business Administration program. Provides an opportunity for more intensive or broader study of a selected topic under the guidance of a faculty member. Prerequisite: permission of instructor and director of the program at the time of early registration.

Administration 491H, 492H, 493H – Reading Course

Open only to single and joint majors in the fourth year of the Business Administration program. Provides an opportunity for more intensive or broader study of a selected topic under the guidance of a faculty member. Prerequisite: permission of instructor and director of the program at the time of early registration.

Administration 495, 496H, 497H, 498H – Special topics

For course details offered in a particular academic year please contact the program office.

Administration 499 – Research project

Research based on a project developed with a local organization. Details must normally be arranged with the Director of the program by May 1 of the preceding academic year.

Canadian Studies

Telephone: (705) 748-1011 ext. 1817

Fax: (705) 748-1715

E-mail: canadianstudies@trentu.ca

Web: www.trentu.ca/canadianstudies

Professor and Chair of the Program

J. E. Struthers, M.A. (Carleton), Ph.D. (Toronto)

Founding President and Vanier Professor Emeritus

T. H. B. Symons, O.C., B.A. (Toronto), M.A. (Oxford), LL.D. (Concordia, Dalhousie, Laurentian, Manitoba, Mount Allison, New Brunswick, Prince Edward Island, Trent, Wilfrid Laurier, York), D.U. (Ottawa), D.Litt. (Colombo), Diplôme d'études collégiales (Dawson), F.R.S.C.

Professor and Canada Research Chair

B. D. Palmer, M.A., Ph.D. (SUNY, Binghamton), F.R.S.C.

Professor

J. H. Wadland, M.A. (Waterloo), Ph.D. (York)

Associate Professors

M. Lacombe, M.A., Ph.D. (York); **J. Driscoll**, M.A., Ph.D. (Queen's)

Assistant Professor

D. Bhandar, M.A., Ph.D. (York); **S. Chivers**, B.A.(Hons) (Calgary), Ph.D. (McGill)

Professors Emeriti

G. Roper, M.A., Ph.D. (Chicago); **A. Wilson**, M.A. (Dalhousie), Ph.D. (Toronto)

Conjunct Professor

S. G. D. Smith, B.A. (McGill), M.A., B.Litt. (Oxford), D.Litt. (Trent)

Adjunct Faculty

S. D. Grant, M.A. (Trent)

Associated Faculty

Anthropology: J. Harrison, A. Meneley, M. Munson, J. So, S. M. Jamieson. *Cultural Studies:* J. Bordo, S.H.W. Kane, D. Torgerson. *Economics:* B. Lew, J. Muldoon. *English Literature:* G. A. Johnston, O. S. Mitchell, J. E. Neufeld, M. A. Peterman (on leave 2004-2005), Z. H. Pollock, M. Steffler. *Environmental & Resource Science/Studies:* S. Bocking, R. Paehlke (on leave), D. Torgerson, T. Whillans. *Geography:* A. Bain, A. G. Brunger (on leave Winter session), G. Nader (on leave 2004-2005), S. Tufts, S. Wurtele. *History:* J. N. Jennings (on leave 2004-2005), E. H. Jones, J. Sangster, S. D. Standen (on leave Winter 2005), K. Walden, R. A. Wright. *International Development Studies:* E. Helleiner (on leave 2004-2005), D. R. Morrison. *Native Studies:* J. S. Milloy. *Political Studies:* M. Neufeld, N. Changfoot, D. Torgerson. *Sociology:* D. Clarke, J. Conley, B. L. Marshall (on leave Fall session), D. Parnis (on leave 2004-2005). *Women's Studies:* S. Arat-Koc, M. Hobbs.

Canadian Studies is an interdisciplinary program that seeks to analyze and explain Canadian experience in all of its dimensions from its unique, vast, and complex geographical and regional character to its modern urban and multicultural realities. Canadian Studies aims to provide students with a Canadian presence and voice in their university program of studies. It is based upon the assumption that to know ourselves is the first step towards understanding others. Our program is not founded upon a single department, but is the product of co-operation by members of several departments and programs within the University. Courses are taken in a strategic pattern to ensure a broad grasp of the Canadian economy, society and cultures. At all levels the Canadian Studies program employs an interdisciplinary approach, drawing on the analytical powers and content of individual disciplines in the humanities, social sciences and sciences.

Revision to requirements for the Honours degree in Canadian Studies

The Honours degree in Canadian Studies consists of 20 (rather than 19) credits. This change took effect with students selecting their majors after the start of the 2001-2002 academic year, and does not apply to any students who previously declared a major in Canadian Studies.

Notes

- Students normally must have completed fifteen credits before enrolling in a 400-level course in Canadian Studies. Exceptions are by the permission of the instructor only, with notice to the chair of the program.
- For the Diploma program in Canadian Studies, see below.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in Canadian Studies, if they have met the requirements for the joint-major General degree (see below).

BACHELOR OF ARTS PROGRAM IN CANADIAN STUDIES

- see p. 22 for requirements which apply to all undergraduate degree programs.
- At least one Native Studies credit is included in degree requirements for the B.A. program in Canadian Studies. If cross-listed with Canadian Studies it may also count as one of the credits in Canadian Studies required for the degree. As of 2004-2005, CAST 204 may not be counted for this purpose.
- The program brochure provides detailed information on course options, scholarships and prizes, reading course requirements and graduate studies.
- Students who have taken *Canadian Studies – History 101* may count it as equivalent to *Canadian Studies 100* for the fulfillment of their Canadian Studies degree requirements.

The single-major Honours program. At least 9 credits in Canadian Studies. The program must include:

- *Canadian Studies 100* or *Canadian Studies – History 101*, *Canadian Studies – Geography – Environmental Studies – Native Studies 204*, *Canadian Studies – Politics – Sociology 300*, *Canadian Studies – Politics – Sociology 305H*, and *Canadian Studies – English 352H*
- 3 credits in Canadian Studies at the 400-level
- 2 additional credits in Canadian Studies
- 1 credit in Native Studies

The joint-major Honours program. At least 7 credits in Canadian Studies. The program must include:

- *Canadian Studies 100* or *Canadian Studies – History 101*, *Canadian Studies – Geography – Environmental Studies – Native Studies 204*, *Canadian Studies – Politics – Sociology 300* or *Canadian Studies – Politics – Sociology 305H* and *Canadian Studies – English 352H*
- 2 additional credits in Canadian Studies at the 400-level
- 1 additional credit in Canadian Studies
- 1 credit in Native Studies

The single-major General program. At least 6 credits in Canadian Studies. The program must include:

- *Canadian Studies 100* or *Canadian Studies – History 101*
- *Canadian Studies – Geography – Environmental Studies – Native Studies 204*
- *Canadian Studies – Politics – Sociology 300*
- *Canadian Studies – Politics – Sociology 305H*
- *Canadian Studies – English 352H*
- 2 additional credits in Canadian Studies
- 1 credit in Native Studies

The joint-major General program. At least 5 credits in Canadian Studies. The program must include:

- *Canadian Studies 100* or *Canadian Studies – History 101*, *Canadian Studies – Politics – Sociology 305H* and *Canadian Studies – English 352H*
- *Canadian Studies – Geography – Environmental Studies – Native Studies 204*, or *Canadian Studies – Politics – Sociology 300*
- 2 additional credits in Canadian Studies
- 1 credit in Native Studies

DIPLOMA IN CANADIAN STUDIES

The Canadian Studies program offers a Diploma for students who wish to undertake a single academic year (September–April) focused directly upon Canadian political economy, society, environment and culture. Students wishing to enrol in the Diploma program must apply, in writing, to the chair of the program, indicating course preferences. As the number of spaces is limited, acceptance is not automatic. A committee made up of faculty members teaching in the Canadian Studies program, selects the successful candidates in consultation with the Admissions Committee.

Eligibility

Applicants must either be students registered in, or graduates of, an accredited post-secondary educational institution normally other than Trent University. An official transcript, including evidence of the content of courses completed and grades received must accompany the application.

Language requirements

In accordance with University regulations applicants must have a competence in written and spoken English. Facility in the French language is desirable but not compulsory.

Special events

All students admitted to the Diploma program attend field trips, films, special lectures and conferences as part of their curricular activity.

Visas, fees and accommodation

International students admitted to the Diploma program are expected to make their own arrangements for visas, financing and accommodation during the year at Trent. Nevertheless, every effort will be made to assist in this process.

The Diploma

The Diploma is awarded in the Spring. With it is included a Trent University transcript identifying all courses undertaken and grades received. Upon successful completion of the Diploma, students may apply for admission to the B.A. program in Canadian Studies. Credits earned in the Diploma program are transferable to the B.A. degree.

Courses

- The Diploma program consists of four credits, including *Canadian Studies 100* or *Canadian Studies – History 101* and one credit from each of categories A, B and C below (*Canadian Studies – Geography – Environmental Studies – Native Studies 204*, *Canadian Studies – Politics – Sociology 300*, *Canadian Studies – Politics – Sociology 305H* and *Canadian Studies – English 352H* are recommended).
- Students must obtain C- (60%) or better in each of the courses in the program to qualify for the Diploma.
- For students taking a fifth credit, *Native Studies 100* is recommended.

A		B		C	
Studies in the Social Sciences		Studies in Regionalism and the Environment		Studies in Culture	
201	366H	203H	324	253	365H
235	367	204	326H	254	383
237H	371H	221H	332H	265	403
238H	373H	222H	333H	266H	408H
255	384H	230	337H	267H	409H
260H	387H	232	363H	275H	420
261H	388H	250	364H	3071H	426
270	398H	263H	376H	3072H	435
271H	400	274H	378H	316	445
300	424	285	380H	325	455
304	425	3021H	406	351	465
308	440	3022H	407	352H	466
309	450H	3031H	467H	353H	475
321H	460H	305H		356	4954
322H	476	310		360H	
341H	477	315		361H	
362H					

Please consult the academic timetable to determine which of the courses listed will be offered in 2004–2005.

Canadian Studies 100 – Producing Canada

This course will provide interdisciplinary approaches to the social, political, economic and cultural production of Canada. Themes will include nationalism, immigration, citizenship, globalization, labour, peacekeeping, film, art and literary productions of Canada. These topics will allow us to understand, through the concept of production, how ideas of Canada are made material. Weekly lectures and tutorials. *D. Bhandar and staff*

Canadian Studies – Politics 201 – Canadian politics (see Political Studies)

Canadian Studies – Geography – Environmental & Resource Studies 203H – Urban environments (see Geography)

Canadian Studies – Geography – Environmental & Resource Studies – Native Studies 204 – Canada: The land

An interdisciplinary enquiry into the function and idea of the land in Canadian traditions. Themes include Aboriginal rights, settlement, sources of land law, postcolonialism, regionalism, urban/rural conflict over natural resource extraction and waste disposal, sustainability, environmental racism, energy, climate change, and representations of land and landscape in literature and the visual arts. Lecture and seminar weekly. *J. Wadland*

Canadian Studies – History – Politics 221H/FA – “Empire Ontario” 1867–1945

Ontario as a political, economic and cultural region. Provincial political culture and state formation; writers and artists; farms, factories and cities; education policy; First Nations; the provincial north; Ontario in the Great Depression; Ontario and Canada. Excludes *Canadian Studies – History 221*. Lecture and tutorial weekly. *J. Struthers*

Canadian Studies – History – Politics 222H/WI – Ontario since 1945: From the “common good” to “common sense”

Transformations in Ontario politics, culture, social and economic life from the Second World War to the present. Themes include immigration, human rights, Toronto's growth, the Ontario north, economic restructuring from the Autopact to NAFTA, health, education, and social policy, and the impact of the common sense revolution. Excludes *Canadian Studies – History 221 – Modern Ontario* and *Canadian Studies – History – Political Studies 221H – Ontario Since 1945*. Lecture and tutorial weekly. J. Struthers

Canadian Studies – History 230 – The making of Canada, 1760–1873 (see History)

Canadian Studies – History 232 – The history of education in the 19th and 20th century (see History)

Canadian Studies – History 235 – Canada since 1914 (see History)

Canadian Studies – Politics – Women's Studies 237H – Women and the law (see Women's Studies)

Canadian Studies – Politics – Women's Studies 238H – Women and the criminal justice system (see Women's Studies)

Canadian Studies – Environmental Studies 250 – Canadian natural resource theory and management (see Environmental & Resource Science/Studies)

Canadian Studies – Anthropology – Native Studies 253 – Aboriginal art of North America (see Anthropology)

Canadian Studies – History 254 – Canada and the modern experience. (see History)

Canadian Studies – Native Studies – History 255 – History of the Indians of Canada (see Native Studies)

Canadian Studies – Economics 260H – Canadian economic development I: Up to 1929 (see Economics)

Canadian Studies – Economics 261H – The Canadian economy (see Economics)

Canadian Studies – Geography 263H – Historical geography (see Geography)

Canadian Studies – English 265 – English Canadian prose (see English Literature)

Canadian Studies – English – Women's Studies 266H/FA – Canadian women's writing, 1945–1980

Introduction to the work of Canadian women writers of fiction from 1945–1980, with particular emphasis on representations and constructions of nation, region, and female identity. Lecture and seminar weekly. M. Lacombe

Canadian Studies – English – Women's Studies 267H – Canadian Women's Writing, 1980–present

Introduction to the work of Canadian women writers of fiction from 1980 to the present, with particular emphasis on postmodern and postcolonial perspectives, the problematics of racialized identities, and feminist experimental writing. Lecture and seminar weekly. M. Lacombe

Canadian Studies – Native Studies – History 270 – History and politics of the Métis (see Native Studies)

Canadian Studies – Geography 271H – Urban systems (see Geography)

Canadian Studies – Women's Studies 274H – Women in Canada: Region and place

Exploration of place and region in the lives of Canadian women, as represented through women's history and literature, with particular reference to life-writing. Excludes *Canadian Studies – Women's Studies 275*. Lecture and seminar weekly. M. Lacombe

Canadian Studies – Women's Studies 275H – Women in Canada: Women and the arts

Selected studies in Canadian women's artistic expression, with particular attention to the visual arts and life-writing. Includes fiction about gender and the arts in Canada. Excludes *Canadian Studies – Women's Studies 275*. Lecture and seminar weekly. M. Lacombe

Canadian Studies – Native Studies 285 – Aboriginal People and the North (see Native Studies)

Canadian Studies – Politics – Sociology 300 – Reading the social: Space, difference, and power in Canada

An interdisciplinary study of the social practices of space, race, community, identity and difference in Canada. First term: We “unmap” the relationship between place and identity through selected case studies from British Columbia, Atlantic Canada, and the North. Second term: We examine immigration, multiculturalism, globalization and diaspora. Lecture weekly, seminar fortnightly.

D. Bhandar

Canadian Studies – History 3021H – Quebec 1867–1930 (see History)

Canadian Studies – History 3022H – Quebec since 1930 (see History)

Canadian Studies – History 3031H – France in America to 1763 (see History)

Canadian Studies – History 304 – Canada and the world since 1900 (see History)

Canadian Studies – Politics – Sociology 305H/FA – Society and politics in Quebec

This course will be concerned with how both the social, economic and cultural changes that come with the transition to late modern, or “postmodern,” society and new alignments in provincial, federal and hemispheric relations have transformed the way that politics are conducted in Quebec. Lecture and tutorial weekly. *J. Driscoll*

Canadian Studies – History 3071H – Public history I (see History)

Canadian Studies – History 3072H – Public history II (see History)

Canadian Studies – History 308 – Business history: The Canadian experience in international perspective (see History)

Canadian Studies – Politics 309 – Law and constitutional analysis

An introduction to the basic principles of legal reasoning and the study of case law through an analysis of court decisions based on the entrenched Charter of Rights as well as a review of constitutional accords and referenda that have had a major impact on Canadian politics. *Politics 201* strongly recommended. *J. Driscoll*

Canadian Studies – Environmental & Resource Studies – Politics 310 – Public policy and the Canadian Environment (see Environmental & Resource Science/Studies)

Canadian Studies – Environmental Studies – Women’s Studies 315 – Women, health and the environments. (see Women’s Studies)

Canadian Studies – History – Women’s Studies 316 – Canadian women’s history (see History)

Canadian Studies – Politics 321H – Ordering world politics II: Canadian foreign policy in the 20th century and beyond (see Political Studies)

Canadian Studies – Geography – Women’s Studies 322H – Gender, society and space (see Geography)

Canadian Studies – History 324 – Canada: The North

The historical and contemporary Canadian North in both its arctic and sub-arctic contexts. Emphasis will be intellectual and social. Two-hour seminar and occasional lectures.

Canadian Studies – French 325 – Théâtre et poésie du Québec (see French studies)

Canadian Studies – Politics 326H – Politics of North American economic integration (see Political Studies)

Canadian Studies – Geography 332H – Settlement geography (see Geography)

Canadian Studies – Environmental & Resource Studies – Geography 333H – Wilderness resources (see Geography)

Canadian Studies – Geography 337H – Recreation geography issues (see Geography)

Canadian Studies – Sociology 341H – Sociology of education (see Sociology)

Canadian Studies – Anthropology 351 – Art, architecture and society (see Anthropology)

Canadian Studies – English 352H/WI – Literary landscapes of Montreal

Comparative survey of writers associated with the region of Montreal, whose work in some way has contributed to that city’s imaginary landscapes, communities and identities. Lecture and tutorial weekly. *M. Lacombe*

Canadian Studies – English 353H – English-Canadian drama (see English)

Canadian Studies – Cultural Studies 356 – Landscape, site, wilderness and the sublime (see Cultural Studies)

Canadian Studies – English – Native Studies 360H – Native fiction (see English Literature)

Canadian Studies – English – Native Studies 361H – Native poetry (see English Literature)

Canadian Studies – Politics 362H – Democratic strategy and public policy
(see Political Studies)

Canadian Studies – Geography 363H – Historical geography of Canada before 1900
(see Geography)

Canadian Studies – Geography 364H – Geography of the Polar regions (see Geography)

Canadian Studies – English 365H – English-Canadian poetry (see English)

Canadian Studies – Politics 366H – Canadian political economy (see Political Studies)
(Not offered this year.)

Canadian Studies – Politics – Women's Studies 367 – Women, law and politics
(see Political Studies)

Canadian Studies – Geography 371H – Urban planning (see Geography)

Canadian Studies – Geography 373H – Internal city structure (see Geography)

Canadian Studies – Geography 376H – The rural-urban fringe (see Geography)

Canadian Studies – Environmental Studies 378H – Canadian renewable resource economics
(see Environmental & Resource Science/Studies)

Canadian Studies – Geography 380H – Regional economic development (see Geography)

Canadian Studies 381, 382H, 383H – Community-based research project

Students are placed in research projects with community organizations in the Peterborough area. Each placement is supervised jointly by a faculty member and a representative of a community organization. For details see "Community-Based Education Program" (p. 206).

Canadian Studies – French 383 – Le roman québécois (see French Studies)

Canadian Studies – Economics 384H – Health economics (see Economics)

Canadian Studies – Sociology – Women's Studies 387H – Immigrant women in Canada
(see Women's Studies)

Canadian Studies – Sociology 388H – Canada compared (see Sociology)

Canadian Studies 390, 391H, 392H, 393H – Reading course

A structured course arranged between student and instructor, approved by the chair of the program, involving independent study of material. Regular meetings and detailed written work. See program brochure for further details and requirements.

Canadian Studies 395, 396H, 398H – Special topics

Canadian Studies – Anthropology 398H – Ethnographic representations of Canadian Aboriginal People (see Anthropology)

Canadian Studies – Politics – Women's Studies 400 – Advanced studies in feminism and social justice: Women, the Welfare State and Globalization in Canada (see Women's Studies).

Canadian Studies 401 – Single credit Honours thesis

Arrangements to be made through the chair of the program.

Canadian Studies 402D – Double credit Honours thesis

Arrangements to be made through the chair of the program.

Canadian Studies – History 403 – History of night (see History)

Canadian Studies – Politics 405 – Contemporary Canadian problems: The politics of protest
(see Political Studies)

Canadian Studies – History 406 – Upper Canada 1784–1867 (see History)

Canadian Studies – History 407 – The Canadian-American frontier (see History)

Canadian Studies – Anthropology 408H – The tourist (see Anthropology)

Canadian Studies – Anthropology 409H – The sociocultural impacts of tourism
(see Anthropology)

Canadian Studies – History 420 – Canadian images

This course explores ways of seeing, looking at and representing Canada and its cultures in visual media, including painting, photography, the graphic arts, film, and video. Analysis is nested in the traditions of Canadian art history and the international literature on theories of visual culture.

Seminar weekly. *J. Wadland*

Canadian Studies – International Development Studies – Politics 424 – Canada, globalization, and international development (see International Development Studies)**Canadian Studies – History – Native Studies 425 – The evolution of the settlement commonwealth** (see Native Studies)**Canadian Studies – French 426 – Advanced Studies in Théâtre et Poésie du Québec** (see French Studies)**Canadian Studies – History – Politics 435 – History of the radical book in Canada, 1860–1970**

This course reviews the history of the radical book in Canada from the 1860s and Confederation to the 1960s and upheavals associated with the struggle for a just society and the explosion of an independence movement in Quebec. Weekly seminar. *B. Palmer*

Canadian Studies – Political Studies 440 – Space, power and citizenship

By engaging in debates found in cultural studies, political and social theory, this course is designed to question the negotiation of contemporary citizenship practices inclusive of multi-cultural citizenship, feminist citizenship, sexual citizenship, Aboriginal citizenship and postnational articulations of citizenship. Seminar weekly. *D. Bhandar*

Canadian Studies – Sociology 445 – The media and communications in Canada (see Sociology)**Canadian Studies – Anthropology 450H – Anthropology of race and racism** (see Anthropology)**Canadian Studies – Sociology – Women's Studies 455 – The dynamics of difference: Gender, disability, and Canadian cultural representations**

This course will explore critical theory, Canadian literature and film, social policy, and the mass media, to gain an understanding of how difference works and how textual forms affects the power attached to (and taken away from) different Canadian constituencies. Our main focus will be on people with disabilities. Seminar weekly. *S. Chivers*

Canadian Studies – Environmental & Resource Studies – Politics 460H – Public policy in comparative perspective (see Environmental & Resource Science/Studies)**Canadian Studies – English 465 – Advanced studies in Canadian literature** (see English)**Canadian Studies – English – Women's Studies 466 – Representations of the Other in contemporary Canadian writing**

Advanced studies in modern and contemporary Canadian fiction, with particular attention to Aboriginal, racial-ethnic minority, francophone, and women writers and their relationship to the so-called mainstream of Canadian literature. Two-hour seminar weekly. *M. Lacombe*

Canadian Studies – Environmental & Resource Studies 467H – Environmental history (see Environmental & Resource Science/Studies)**Canadian Studies – History 475 – History of everyday life** (see History)**Canadian Studies – History 476 – Canadian working class history** (see History)**Canadian Studies – History – Politics 477 – Studies in Canadian social policy**

This course examines the evolution of social policy from the 19th to the 21st century. Governmental, professional and organizational responses to poverty, health care, old age, children's rights, mental illness, physical disability, family fragmentation, and caregiving. Seminar weekly. *J. Struthers*

Canadian Studies 481, 482H, 483H – Community-based research project

Students are placed in research projects with community organizations in the Peterborough area. Each placement is supervised jointly by a faculty member and a representative of a community organization. For details see "Community-Based Education Program" (p. 206).

Canadian Studies 485, 486H, 487H, 488H – Field course

A structured course of supervised activity in the field, including detailed written work. Arrangements to be made through the chair of the program.

Canadian Studies 490, 491H, 492H, 493H – Reading course

A structured course arranged between student and instructor, approved by the chair of the program, involving independent study of material. Regular meetings and detailed written work. See program brochure for details and requirements.

Canadian Studies 495, 496H, 497H, 498H – Special topics

Canadian Studies – Cultural Studies 4954 – Oral scripture (Myths of the Pacific Northwest)
(see Cultural Studies)

Chemical Physics

Program Co-ordinators

Chair of the Chemistry Department

To be named

Chair of the Physics Department

A. J. Slavin, M.Sc. (Toronto); Ph.D. (Cambridge) (*on leave Fall session*)

Professors

See listing of faculty in Chemistry, Mathematics and Physics

The Chemical Physics program is designed for students who are interested in the study of the physics and physical chemistry of molecular and atomic-scale systems, and condensed matter. Course emphasis is on the physics and physical chemistry of atomic, molecular and bulk systems, as well as the mathematical techniques and approaches needed to do quantitative work in these areas. A Chemical Physics education at Trent involves working closely with faculty and staff in formal lecture and informal laboratory and tutorial/workshop settings. Honours-year research projects offer an opportunity for students to obtain first-hand experience in modern chemical physics research design and methods.

Note:

- There is no minor in Chemical Physics.

BACHELOR OF SCIENCE PROGRAM IN CHEMICAL PHYSICS

- see p. 22 for requirements which apply to all undergraduate degree programs.
- The program in Chemical Physics is a sequence of courses offered by the departments of Chemistry, Physics and Mathematics that compose an integrated whole. It is not available as a joint-major degree.
- For information on individual courses see calendar entries for Chemistry and Physics.
- Students wishing to transfer to a single-major program in Chemistry or Physics should consult the chair of the appropriate department before beginning third year.

The single-major Honours program. At least 14 credits in Chemistry, Physics and Mathematics. The program must include:

- Chemistry 100, 200, 301H, 302H, 401H and 408H
- Physics 100, 202H, 203H, 321 and 400
- Mathematics 110, 205H and 305H
- Mathematics 200 or Mathematics 201H and 202H
- 2 additional credits in Chemistry, Physics or Mathematics at the 400-level
- 1 additional credit in Chemistry, Physics or Mathematics

The single-major General program. At least 10 credits in Chemistry, Physics and Mathematics. The program must include:

- Chemistry 100 and 200
- at least 2 of Chemistry 301H, 302H, 401H or 408H
- Physics 100, 202H, 203H and 321
- Mathematics 110, 200 or Mathematics 205H and 305H
- 1 additional credit in Chemistry or Physics at the 200- or 300-level

Chemistry

Telephone: (705) 748-1011 ext. 1505

Fax: (705) 748-1625

E-mail: chemistry@trentu.ca

Web: www.trentu.ca/chemistry

Chair of the Department

To be named

Professor and NSERC Industrial Chair

P. Dillon, M.Sc., Ph.D. (Toronto)

Professors

E. G. Lewars, B.Sc. (London), Ph.D. (Toronto); **J. M. Parnis**, B.Sc., Ph.D. (Toronto) (*on leave 2004-2005*)

Associate Professor and NSERC Industrial Junior Chair

H. Hintelmann, B.Sc., Ph.D. (Hamburg)

Associate Professors

S. P. Rafferty, B.Sc. (Waterloo), Ph.D. (British Columbia); **I. Svishchev**, M.Sc. (Moscow State), Ph.D. (USSR Academy of Sciences)

Assistant Professors

A. J. Vreugdenhil, B.Sc. (Queen's), Ph.D. (McGill); **J. Yee**, B.Sc. (Toronto), M.Sc. (Queen's), Ph.D. (British Columbia)

Professors Emeriti

P. F. Barrett, M.Sc. (Queen's), Ph.D. (Toronto), FCIC; **S. A. Brown**, B.S.A. (Toronto), M.S., Ph.D. (Michigan State); **D. Mackay**, B.Sc., Ph.D. (Glasgow), **R. E. March**, B.Sc. (Leeds), Ph.D. (Toronto), FCIC; **K. B. Oldham**, Ph.D., D.Sc. (Manchester), FCIC; **A. H. Rees**, M.A., Ph.D. (Cambridge), M.A. (Oxford), Ph.D. (London), FCIC, Assoc. R.C.S.; **R. A. Stairs**, B.Sc. (McGill), M.Sc. (Western Ontario), Ph.D. (Cornell), FCIC.

Conjunct Professor

D. Rayner, B.Sc., Ph.D. (St Andrews, Scotland)

Conjunct Associate Professor

R. C. Makhija, M.Sc., Ph.D. (Lucknow), C.Chem., FCIC

Senior Demonstrator

H. Al-Haddad, B.Sc. (Baghdad), Ph.D. (Strathclyde), C.Chem.

Demonstrators/Technicians

B. Best, B.Sc. (Trent); **J. Carswell**, B.Sc. (Trent); **T. Hayward**, B.Sc. (Trent), M.Sc. (Queen's);

S. Landry, B.Sc. (Trent), **J. LaPlante**

Chemistry is the central discipline of science, with interdisciplinary links to all other physical and life science disciplines. The Chemistry department offers a comprehensive range of courses in the fundamentals of analytical, biochemical, environmental, inorganic, organic and physical chemistry. Upper-level courses include study in advanced fundamentals, as well as computational, bio-inorganic and materials chemistry. Chemistry education at Trent involves working closely with faculty and staff in formal lecture and informal laboratory and tutorial/workshop settings. Many students choose to do an Honours year research project in which they obtain first-hand experience in modern chemical research design and methods.

Notes

- *Chemistry 100* is a prerequisite for all upper-level Chemistry courses.
- An OAC or Grade 12 U Chemistry or equivalent in Chemistry is a prerequisite for *Chemistry 100*. Students without this prerequisite should contact the departmental office for advice before Early Registration.
- All students taking Chemistry courses that have a laboratory component will be expected to pay for breakage of equipment and/or glassware on a per-item basis, billed monthly to their student account.
- For the programs in Biochemistry & Molecular Biology, Environmental Chemistry and Chemical Physics see the relevant sections of the calendar.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.

- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in Chemistry, if they have met the requirements for the joint-major General degree (see below).

BACHELOR OF SCIENCE PROGRAM IN CHEMISTRY

- see p. 22 for requirements which apply to all undergraduate degree programs.
- *Chemistry 150* is not credited towards the major requirements for Chemistry.
- The single-major Honours degree program in Chemistry is accredited by the Canadian Society for Chemistry.
- A maximum of two credits may be taken in Chemistry project courses.
- An average of 75% in all previous Chemistry courses and permission of instructor are prerequisites for *Chemistry 451, 452D, 453H, 454H, 455H, 456* and *457D*.
- No more than two credits from thesis or project courses may be counted towards any degree offered wholly or jointly by the Chemistry department.

The single-major Honours program. At least 10.5 credits in Chemistry. The program must include:

- *Chemistry 100, 200, 212, 240H* and *321H*
- *Chemistry 322H* or *323H*
- *Chemistry – Biology 231H*
- *Chemistry – Environmental & Resource Science 342H* or *343H*
- 2 additional credits in Chemistry at the 300-level
- 3 credits in Chemistry at the 400-level, including at least 1.5 credits in lecture courses
- 1 additional credit in Chemistry at the 300- or 400-level or 1 science credit at the 400-level
- *Physics 100*
- 1 credit in *Mathematics 110* (or in *Mathematics 105H* and either *135H* or *155H*)
- 0.5 additional credit in Mathematics or 0.5 credit in Computer Science

The joint-major Honours program. At least 7 credits in Chemistry. The program must include:

- *Chemistry 100*
- 2 credits in Chemistry at each of the 200-, 300- and 400-levels
- 1 credit in *Mathematics 110* (or in *Mathematics 105H* and either *135H* or *155H*)
- 0.5 additional credit in Mathematics or 0.5 credit in Computer Science

The single-major General program. At least 6 credits in Chemistry. The program must include:

- *Chemistry 100, 200, 212* and *240H*
- 2 credits in Chemistry beyond the 200-level
- 0.5 additional credit in Chemistry
- 1 credit in Mathematics

The joint-major General program. At least 5 credits in Chemistry. The program must include:

- *Chemistry 100*
- 2 credits in Chemistry at the 200-level
- 2 credits in Chemistry at the 300-level
- 1 credit in Mathematics

Please consult the academic timetable to determine which of the courses listed will be offered in 2004-2005.

Chemistry 100 – Introductory chemistry

Essential aspects of general, physical, inorganic, organic and biological chemistry. Topics include atomic structure, bonding, equilibrium, acids-bases, gases, liquids, solutions, crystals, redox chemistry, kinetics and thermodynamics with an introduction to the chemistry of important organic and biological molecules. Prerequisite: OAC Chemistry or Grade 12 U Chemistry or equivalent or permission of instructor (see notes). Three lectures weekly; laboratory and tutorials in alternate weeks. A. Vreugdenhil

Chemistry 150 – Chemistry in everyday life

Our physical world is made of atoms and molecules. This course explores the role that these basic chemical building blocks play in determining the properties of common materials and substances such as air, water, soils, foods, plastics and DNA. It is non-quantitative and is designed for both arts and science students. Not credited towards the major requirements for Chemistry. Two one-hour lectures and one one-hour workshop weekly. One 1.5-hour laboratory fortnightly.

Chemistry 155H/FA – Introductory chemistry for the health sciences

An introduction to aspects of chemistry directly relevant to health professionals. A brief introduction to clinically relevant concepts of general chemistry will be followed by the study of functional groups commonly found in organic and pharmacologically important molecules. Emphasis on basic principles of biochemistry in living systems, foods and drugs. Prerequisite: OAC chemistry or equivalent. Two- or three-hour lecture weekly and occasional tutorials. Open only to students enrolled in the B.Sc. Nursing program. *I. Brenner*

Chemistry 200 – Elementary physical chemistry

Introduction to the kinetic theory of gases, thermodynamics of physical and chemical processes, quantum mechanics and spectroscopy, chemical kinetics, electrochemistry. Prerequisite: *Chemistry 100; Mathematics 110 or Mathematics 105H* or permission of instructor. One laboratory and three lectures weekly. Tutorials to be arranged by instructor. *I. Svishchev*

Chemistry 212 – Introductory organic chemistry

Functional group chemistry, with emphasis on the preparation and reactions of alkanes, alkenes, alkynes, alcohols, alkyl halides, ethers, aldehydes, ketones, carboxylic acids and derivatives, and aromatic compounds, using a mechanistic approach to reactions. Aromaticity and spectroscopy; stereochemistry and resonance. Prerequisite: *Chemistry 100*. Three lectures and laboratory weekly and occasional tutorials.

Chemistry – Biology 231H/WI – Biochemical concepts

This course is intended to introduce students to key molecules and concepts in biochemistry, including the structure and function of major classes of biomolecules and key biochemical pathways. Prerequisite: *Chemistry 100*. Two lectures weekly. Tutorial fortnightly. *J. Yee*

Chemistry 240H/FA – Analytical chemistry

The theory of chemical equilibrium as it applies to chemical analysis; experiments in gravimetric and volumetric analysis. Prerequisite: *Chemistry 100*. Two lectures and laboratory weekly; tutorials to be arranged by instructor.

Chemistry – Environmental & Resource Science 241 – Environmental chemistry

Chemical principles of environmental issues. Chemistry of the atmosphere, natural waters and soils. Organic and inorganic pollutants and their distribution in the environment; hazardous wastes. Water treatment methods. Prerequisite: *Chemistry 100*. Students are encouraged to enrol in *Chemistry 200* before or concurrently with *Chemistry 241*. Excludes *Chemistry 241H*. Two lectures weekly; tutorials to be arranged by the instructor. *I. Svishchev*

Chemistry 301H/FA – Quantum chemistry and spectroscopy

Fundamentals and applications of quantum mechanics in chemical systems and spectroscopy. Wave functions, rotational and vibrational motion, structure of atoms and molecules, bonding theories. Prerequisite: *Chemistry 200* and *Mathematics 110* or permission of instructor. Recommended: *Mathematics 200* or *Mathematics 201H* and *202H*. Three lectures, one computer-assisted computational workshop weekly. Offered in even years.

Chemistry 302H/WI – Chemical thermodynamics and reaction kinetics

Modern chemical thermodynamics and kinetics. Introduction to statistical thermodynamics: molecular interpretation of entropy and internal energy. Reaction rate theories: gas phase, surface and solution kinetics. Prerequisite: *Chemistry 200* and *Mathematics 110* or permission of instructor. Recommended: *Mathematics 200* or *Mathematics 201H* and *202H*. Three lectures, one computational laboratory or tutorial weekly. Offered in even years. *I. Svishchev*

Chemistry 310 – Advanced organic chemistry

Structure and reactivity of reactants and transition states in the determination of thermodynamics and kinetics of chemical reactions. Introduction to potential energy surfaces as functions of molecular structure and as guides to understanding chemical reactions. There will be several hands-on computer-based exercises illustrating structural and mechanistic aspects of organic chemistry. Prerequisite: *Chemistry 212*. Highly recommended: *Chemistry 200*. Two lectures or tutorials and one laboratory weekly. *E. Lewar*

Chemistry 321H/FA – Transition metal chemistry

The bonding and structure of coordination compounds of the d-block transition metals; mechanisms of ligand exchange and redox reactions; physical and chemical properties of d- and f-block elements; introduction to organometallic chemistry. Prerequisite: *Chemistry 200*. Two lectures and laboratory weekly; tutorial or seminar in alternate weeks. Offered in odd years. A. Vreugdenhil

Chemistry 323H/FA – Chemistry of the main-group elements

Structure and bonding in compounds of the main group elements, including symmetry and the correlation of physical and chemical properties with electronic structure. Qualitative comparison of the second-row elements with the heavier elements in the groups. Please note that this course ran as *Chemistry 322H* before the 2002–2003 academic year. Prerequisite: *Chemistry 200*. Excludes *Chemistry 322H*. Two lectures and laboratory weekly; tutorial or seminar in alternate weeks. Offered in even years. A. Vreugdenhil.

Chemistry – Biology 330 – General biochemistry

Biochemistry involves the study of the structure and chemical properties of the essential building blocks of life (water, lipids, carbohydrates, nucleotides and amino acids) and how these are assembled into sophisticated biological structures such as membranes, polysaccharides, nucleic acids and proteins. These exhibit key functional roles; including biocatalysis, bioenergetics and biomechanics. Prerequisite: *Chemistry – Biology 231H* and *Chemistry 212*. Recommended: *Biology 206H* and *Biology 207H*, and one of *Chemistry 200* or *Chemistry 240H*. Two lectures and laboratory weekly; computer-based tutorial fortnightly. S. Rafferty

Chemistry – Environmental & Resource Science 342H/FA – Instrumental analysis I

Theory and practice of electrochemical and spectrophotometric methods in analysis. Prerequisite: *Chemistry 240H*. Laboratory and two lectures weekly, tutorials to be arranged.

Chemistry – Environmental & Resource Science 343H/VI – Instrumental analysis II

Theory and practice of chromatography, mass spectrometry and sampling. Particular emphasis will be placed on applications in environmental analysis. Prerequisite: *Chemistry 240H*. Laboratory and two lectures weekly, tutorials to be arranged.

Chemistry 401H/FA – Photochemistry

Application of quantum mechanics and spectroscopy in the area of photochemistry. Topics include: interaction of matter with light, unimolecular decomposition, energy transfer processes, photochemical activation, organic photochemistry, as well as applications in environmental and industrial processes. Prerequisite: *Chemistry 200*. Two lectures or seminars weekly. Offered in odd years. J. M. Parnis.

Chemistry 408H/FA – Modern physical environmental chemistry

Molecular-level understanding of natural phenomena. Unique physical properties and structure of water, hydrogen bonding and hydrophobic effect. More advanced topics may include partitioning of chemicals in the environment, colloidal stability and molecular simulations of water. Prerequisite: *Chemistry 200*. Recommended: *Chemistry – Environmental & Resource Science 241H*. Two lectures or seminars weekly. Offered in even years. I. Svishchev

Chemistry 412H/VI – Modern organic synthesis

Retrosynthetic strategies for the preparation of complex molecules from accessible starting materials. Methods for carbon-carbon bond formation, reagents for oxidation and reduction, and the use of protecting groups. Introduction to information resources for organic chemistry. Prerequisite: *Chemistry 310*. Two lectures, tutorials or seminars weekly. E. Lewars

Chemistry 413H/FA – Computational chemistry

The use of molecular mechanics, semi-empirical *ab initio* methods in the investigation of molecular structure and reactivity. Prerequisite: *Chemistry 200* and *Chemistry 272*. Two lectures, tutorials or seminars weekly. E. Lewars

Chemistry 421H/VI – Organometallic chemistry

Chemistry of organic and inorganic ligands at metallic centres including the carbon-metal bond, catalysis, organic ligand transformations and reactions at metallic centres. Prerequisite: *Chemistry 321H* or both *Chemistry 322H* and *Chemistry 423H*. Two lectures weekly and occasional tutorials to be arranged by instructor. Offered in even years. A. Vreugdenhil

Chemistry – Physics 422H – Principles and applications of symmetry and group theory

Principles and applications of symmetry and group theory in molecular systems. Quantum mechanics, molecular orbital theory, ligand field theory, electronic and vibrational spectroscopy. Prerequisite: one of *Chemistry 301H*, *302H*, *321H*, *323H*; *Physics 203H* or permission of instructor. Two-hour lecture or discussion meeting weekly.

Chemistry 423H/WI – Inorganic materials

Structure and bonding theory in inorganic molecules is reviewed and expanded for extended structures (polymers and solids). Topics include band structures in metals, semiconductors, and insulators; superconductors and nanoscale materials. Prerequisite: *Chemistry 322H* or both *Chemistry 321H* and *Chemistry 421H*. Two lectures weekly and occasional tutorials to be arranged by instructor. Offered in odd years. A. Vreugdenhil

Chemistry – Biology 434H/FA – Protein chemistry

Complexity and diversity of organisms derives largely from proteins acting as catalysts, transporters, signaling agents and structural elements. This course describes how variety in protein structure and function can be generated from a few simple concepts applied to a few simple precursors. Techniques and applications of protein engineering are also discussed. Prerequisite: *Chemistry – Biology 330* or permission of instructor. Two hours of lectures per week. S. Rafferty

Chemistry – Biology 435H/WI – Bioinorganic chemistry

The essential biological roles of metals are usually acknowledged but seldom discussed in most biochemistry courses. This course includes an introduction to coordination chemistry and a survey of the roles of metals in enzyme catalysis, oxygen transport, photosynthesis, cell mobility, gene expression and environmental toxicity. Prerequisite: *Chemistry – Biology 330* or *Chemistry 321H* (pre- or co-requisite) or permission of instructor. Two hours of lectures per week. S. Rafferty

Chemistry – Environmental & Resource Science 442H/FA – Advanced analytical chemistry

Modern analytical instrumentation, techniques and their applicability to research are addressed. The primary goal is to give the student an understanding of the theory and design of current analytical instrumentation. Students will also become acquainted with the current literature, research in analytical/environmental chemistry, and solve real-world problems. Prerequisite: *Chemistry – Environmental & Resource Science 342H* or *343H* or permission of instructor. Two hours of lectures and one hour of tutorials and/or seminars weekly.

Chemistry 451 – Project course in chemistry

Study, usually involving experimental research, under the supervision of a faculty member including two seminars and a written thesis. At least eight hours per week. Prerequisite or co-requisite: two chemistry lecture half-courses at the 400-level. Permission required. Contact co-ordinator as soon as possible and no later than the end of the previous Winter session. Co-ordinator: I. Svishchev

Chemistry 452D – Double-credit project course in chemistry

About 16 hours per week; otherwise, as *Chemistry 451*. Co-ordinator: I. Svishchev

Chemistry 453H/FA, 454H/WI, 455H – Half-credit project courses in chemistry

Study, usually involving experimental research, under the supervision of a faculty member including a seminar and a written thesis. At least eight hours per week for the Fall (453H) or Winter (454H) session or at least four hours per week over a full academic year (455H). Prerequisite or co-requisite: two chemistry lecture half-courses at the 400-level. Permission required. Contact co-ordinator as soon as possible and no later than the end of the previous Winter session. Co-ordinator: I. Svishchev

Chemistry 456 – Project course in biochemistry

Study, usually involving experimental research, under the supervision of a faculty member, including two seminars and a written thesis. At least eight hours per week. Prerequisite or co-requisite: two Chemistry or Biology lecture half-courses at the 400-level. Permission required. Contact co-ordinator as soon as possible and no later than the end of the previous Winter session. This course is only available to students who are pursuing the Biochemistry & Molecular Biology degree and may not be combined with more than one credit in a project course in any other discipline. Co-ordinator: S. Rafferty

Chemistry – Biology 457D – Double credit project course in biochemistry

At least 16 hours per week; otherwise as *Chemistry 456*. May not be combined with any other project courses for credit toward the Biochemistry & Molecular Biology degree. Co-ordinator: S. Rafferty

Chemistry 490 – Reading course

Topics from one of the following fields: analytical chemistry, biochemistry, inorganic chemistry, organic chemistry, physical chemistry and theoretical chemistry. Project work outside the laboratory may be involved. Offered only by prior arrangement through department office.

Chemistry 4971H/WI – Research project in computational chemistry

Students will carry out a research project using computational methods under the supervision of a faculty member. This course is available to all students who have successfully completed *Chemistry 413H*. Interested students should contact the co-ordinator during the Fall. Prerequisite: *Chemistry 413H*. About eight hours per week. Co-ordinator: E. Lewars

Comparative Development Studies

See International Development Studies

Computer Science/Studies

Telephone: (705) 748-1011 ext. 1495 E-mail: compstudies@trentu.ca
Fax: (705) 748-1066 Web: www.trentu.ca/computerstudies

Associate Professor and Chair of the Program

R. T. Hurley, B.Sc. (New Brunswick), Ph.D. (Waterloo)

Professor

J. W. Jury, M.Sc., Ph.D. (Toronto)

Associate Professors

B. G. Patrick, B.C.S. (Concordia), M.Sc. (Queen's), Ph.D., M.B.A. (McGill); **S. B. Regoczei**, M.Sc. (Toronto); **M. J. Tamplin**, B.A. (Toronto), M.A. (London), Ph.D. (Arizona) (*on leave Fall session*); **T. Yamakami**, B.Sc. (Tsukuba), M.Sc. (Shizuoka), Ph.D. (Toronto)

Assistant Professor

W. Feng, B.Sc. (Hebei), M.Sc. (Shaanxi), Ph.D. (Glasgow)

Lecturer

B. F. Hircock, B.Sc., M.Sc. (Trent)

Adjunct Faculty

S. Andreou, B.Sc. (Windsor), M.Eng. (Toronto); **P. Kiriakidis**, B.Sc. (Ryerson), B.Ed. (Toronto), M.A. (Columbia), Ph.D. (Pacific Western); **K. Gregory**, Ph.D. (Toronto); **L. E. McHardy**, B.A., M.Sc. (Western Ontario); **P. J. Northrop**, ISP; **J. Palbom**, B.A. (Trent), B.Ed. (York); **W. Rowland**, M.A. (Trent)

Laboratory Demonstrator

J. Mitchell, B.Sc. (Trent)

Trent University's Computer Science/Studies program is a unique interdisciplinary program – combining course offerings in computer science, information and administrative systems, and digital culture and ideas. We offer several different B.Sc. and B.A. degree programs in Computer Science or Computer Studies, as well as minors in Computer Science or Computer Studies.

Notes

- C- (60%) or higher is required in any Computer Science/Studies course if it is to serve as a prerequisite for another course in the program.
- Science courses, which fulfill University requirements for the B.Sc., are designated Computer Science (COSC); arts courses are designated Computer Studies (COST).
- Several courses are offered on an alternate year basis. Students should consult the University Timetable for scheduling information.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in Computer Studies, if they have met the requirements for one of the joint-major General degrees (see below). For the minor in Computer Science, see below.

BACHELOR OF ARTS AND BACHELOR OF SCIENCE PROGRAMS IN COMPUTER SCIENCE/STUDIES

- The Computer Science/Studies program offers both a B.A. and a B.Sc. degree.

BACHELOR OF SCIENCE PROGRAM IN COMPUTER SCIENCE/STUDIES

- see p. 22 for requirements which apply to all undergraduate degree programs.
- There is an Honours B.Sc. program in Computer Science (single-major and joint-major) and a General B.Sc. program in Computer Science (single-major only).
- There is a joint-major B.Sc. program in Computer Studies (Honours and General); there is no single-major B.Sc. program in Computer Studies.
- In order for students to be eligible for a joint-major Honours B.Sc. degree with another Science discipline, they must successfully complete *Computer Science 401H* and *Computer Science 402*.
- Students may count no more than one credit from 490-series reading courses towards their B.Sc. degree in Computer Science (single-major or joint-major).
- *Computer Science – Mathematics 207H, 415H and 416H* are counted as 300-level courses towards the B.Sc. degrees in Computer Science and in Computer Studies.
- *Computer Studies – Philosophy 337* is counted as a 200-level course towards the B.Sc. in Computer Science and in Computer Studies.
- Students whose interests span the three disciplines of Computer Science, Physics and Mathematics may be interested in the single-major Honours program in Computing & Physics. Please consult the Computing & Physics section of the calendar for details.
- The individual options within the B.Sc. degree require a specific number of credits from the following categories.
 - A. Theory: *Computer Science 300H, 362H, 410H*
 - B. Systems: *Computer Science 338H, 431H, 432H, 435H, Computer Science – Physics 325H*
 - C. Data Management: *Computer Science 340H, 360H, 364H*
 - D. Applications: *Computer Science 347H, 355H, 358H, Computer Science – Mathematics 207H.*

The single-major Honours B.Sc. program in Computer Science. At least 11 credits in Computer Science/Studies. The program must include:

- *Computer Science 102H, 104H, 202H, 230, 304H, 305H, 332H, 401H, 402* and *Computer Science – Mathematics 260*
- 1 additional credit in Computer Science at the 400-level
- 2 additional credits in Computer Science/Studies at the 300- or 400-level
- 1.5 additional credits in Computer Science/Studies
- of the credits in Computer Science/Studies, at least 9 in Computer Science, at least 1 in Computer Studies and at least 0.5 from each of categories A, B, C and D listed above
- *Mathematics 110, 135H and 155H*
- 14 science credits in the program as a whole

The joint-major Honours B.Sc. program in Computer Science. At least 8 credits in Computer Science/Studies. The program must include:

- *Computer Science 102H, 104H, 202H, 230, 304H, 401H, 402* and *Computer Science – Mathematics 260*
- 1 additional credit in Computer Science at the 400-level
- 1.5 additional credits in Computer Science/Studies at the 300- or 400-level
- of the credits in Computer Science/Studies, at least 5.5 in Computer Science, at least 1 in Computer Studies and at least 0.5 from each of categories B and C listed above
- *Mathematics 110, 135H and 155H*
- 14 science credits in the program as a whole

The joint-major Honours B.Sc. program in Computer Studies. At least 7 credits in Computer Science/Studies. The program must include:

- *Computer Science 102H, 104H, 202H, 304H, 401H* and *402*
- 0.5 additional credit in Computer Science at the 400-level

- 1.5 additional credits in Computer Science/Studies at the 300- or 400-level
- 1.5 additional credits in Computer Science/Studies
- of the credits in Computer Science/Studies, at least 5 in Computer Science, at least 1 in Computer Studies and at least 0.5 from any two categories listed above
- 1 credit from *Mathematics 105H, 110, 135H or 155H*
- 14 science credits in the program as a whole

The single-major General B.Sc. program in Computer Science. At least 7.5 and at most 8 credits in Computer Science/Studies. The program must include:

- *Computer Science 102H, 104H, 202H, 230, 304H, 332H, 340H* and *Computer Science – Mathematics 260*
- 2 additional credits in Computer Science at the 300- or 400-level
- 0.5 additional credit in Computer Science/Studies at the 300- or 400-level
- 1 credit from *Mathematics 105H, 110, 135H or 155H*
- 11 science credits in the program as a whole

The joint-major General B.Sc. program in Computer Studies. At least 5 credits in Computer Science/Studies. The program must include:

- 4 credits in Computer Science, of which one must be at the 300- or 400-level
- 1 credit in Computer Science or Computer Studies
- of the credits in Computer Science/Studies, at least 2 at the 300- or 400-level
- 1 credit from *Mathematics 105H, 110, 135H or 155H*
- 11 science credits in the program as a whole

BACHELOR OF ARTS PROGRAM IN COMPUTER STUDIES

- see p. 22 for requirements which apply to all undergraduate degree programs.
- There is a joint-major B.A. program in Computer Studies (Honours and General); there is no single-major B.A. program in Computer Studies.

The joint-major Honours B.A. program in Computer Studies. At least 7 credits in Computer Science/Studies, including at least 3 credits at the 300- or 400-level.

The joint-major General B.A. program in Computer Studies. At least 5 credits in Computer Science/Studies, including at least 2 credits at the 300- or 400-level.

Minor in Computer Science

- There is no joint-major General degree in Computer Science, the normal equivalent of the minor. However, students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in Computer Science, if they have successfully completed the courses listed below.

The minor in Computer Science consists of 6 credits, including:

- *Computer Science 102H, 104H, 202H and 230*
- 1.5 additional credits in Computer Science
- 1 additional credit in Computer Science/Studies
- of the credits in Computer Science/Studies, at least 2 at the 300- or 400- level
- 1 credit from *Mathematics 105H, 110, 135H or 155H*

Please consult the academic timetable to determine which of the courses listed will be offered in 2004–2005.

Computer Science 102H/FAWI – Introduction to software engineering with C/C++

This course is the introductory programming course for Computer Science majors. Students will learn how to design, test and debug computer programs using the C/C++ programming languages. Topics to be covered include a general discussion of programming languages, algorithm design, program testing, program debugging, linked lists. No prerequisite. Excludes *Computer Science 152H*. R. Hurley

Computer Science 104H/WI – Programming methodologies

The purpose of this course is to provide experience in developing larger and more complex computer programs, including a more detailed examination of some of the advanced concepts of the C/C++ programming language. Topics to be covered include recursive programming, linked lists, program development techniques (such as top-down design, program testing, program structure and documentation), the preprocessor, bit manipulation, unions, introduction to data structures, and an introduction to C in UNIX. Prerequisite: *Computer Science 102H*. R. Hurley

Computer Science 151H/FA/WI – Introduction to computer science with applications

An introduction to general principles of computing and programming with practical experience in modern applications including spreadsheets and database management systems, as well as an introduction to programming. Topics include impact of computers on society, architecture/organization of computers, binary representation, I/O and secondary storage, operating systems, Basic programming and data communications. No prerequisite. Not to be counted toward a major in the Computer Science/Studies B.Sc. programs. Excludes *Computer Studies 101H*. J. Jury

Computer Science 152H/WI – Introduction to programming

A service course in programming for students not intending to major in Computer Science/Studies. Topics include a discussion of programming languages, problem analysis, algorithm design, program design and construction, and an introduction to data structures. Prerequisite: *Computer Science 151H* or equivalent. Not to be counted toward a major in the Computer Science/Studies B.Sc. programs. Excludes *Computer Science 102H*, *250H* and *Computer Studies 150H*. W. Feng

Computer Science 202H/FA – Data structures and algorithm design

Examination of data structures, abstract data types and algorithm design in a language-independent environment intended to develop knowledge and programming skills beyond an introductory level. Topics include algorithm and data structure design; abstract data types; queues, stacks, lists, trees and graphs; hashing; sorting and searching techniques; algorithm complexity analysis. Prerequisite: *Computer Science 104H*; *Mathematics 105H* or *110* recommended. B. Patrick

Computer Science 204H/WI – Object-oriented programming

The purpose of this course is to familiarize students with an object-oriented programming language, such as C++ and/or Java. Topics to be covered include classes, inheritance, friendship, constructors and destructors, class libraries, operator overloading, virtual functions and polymorphism, templates and exception handling. These topics will be augmented with case studies. Prerequisite: *Computer Science 104H*. T. Yamakami

Computer Science – Mathematics 207H – Introduction to numerical and computational methods (see Mathematics)**Computer Studies 210H – Computing in the social and natural sciences and humanities**

A survey of various approaches to data analysis using microcomputers. It introduces data and problems not usually encountered by Computer Studies joint majors and is also intended for non-Computer Studies students who intend to use computers for research in their disciplines. Prerequisite: One of *Computer Science 102H*, *151H* or equivalent. (Not offered this year.)

Computer Science 230 – Computer organization

An investigation of digital logic, computer architecture and assembly language programming. Topics will include boolean algebra, sequential logic, circuit design, busing, main memory, secondary memory, the central processing unit and I/O organization. Prerequisite: *Computer Science 102H*; *Mathematics 130* or *135H* recommended. W. Feng and B. Hircok

Computer Science – Philosophy 240H – Symbolic logic (see Philosophy)**Computer Science – Mathematics 260 – Discrete structures** (see Mathematics)**Computer Studies – Administration 261H/FA/WI – Information systems for business and government**

An introduction to information systems based on digital information technology, including: administrative systems, records management, management information systems and knowledge utilities. Organization theory and the case study approach to problem solving. Using information technology for strategic competitive advantage in a knowledge-based economy. No prerequisite. Open to first-year students. S. Regoczai

Computer Studies – Administration 262H/WI – Information systems analysis and design

Systems development methodologies for building information systems in organizations, including: conceptual analysis, requirements specifications, conceptual database design, systems analysis and systems design. Diagramming techniques such as data flow diagrams and structure charts, are emphasized. Usability audits, user interface design and project management for software development. Prerequisite: *Computer Studies 261H* or *Computer Science 104H*. S. Regoczei

Computer Studies 280H/FA – Introduction to cyberspace

An introduction to the cultural implications of interactive digital technology, examining the convergence of computing, communications, public media and entertainment industries. The course addresses current concerns such as the Web, multimedia design, virtual spaces and social domains. No prerequisite. Open to first-year students.

Computer Studies 283H/WI – Introduction to multimedia and design

Cultural implications of multimedia within the convergence of television, home entertainment, computing and data communication technologies. History of design as it affects the look and feel of our current surroundings. The significance of digital audio, digital video and graphics design for electronic publishing. No prerequisite. Open to first-year students. S. Regoczei

Computer Science 300H/WI – Algorithms

This course picks up where *Computer Science 202H* left off, with a discussion of more advanced data structures and the design of more efficient algorithms. Topics to be discussed include advanced topics in trees and graphs, set manipulation, dictionary problem, dynamic programming, divide-and-conquer techniques, pattern-matching algorithms and NP-complete problems. Prerequisite: *Computer Science 202H*. B. Patrick

Computer Science 304H/WI – Software requirements specification and analysis

This course introduces students to the requirements-definition phase of software development. It will discuss models, notations and processes for software requirements identification, representation, validation and analysis. An important component is the preparation for the *Computer Science 400* group project. Prerequisite: *Computer Science 202H*, one half-credit from *Computer Science 300H, 305H, 332H, 337H, 340H* and an additional *Computer Science* half-credit at the 300- or 400-level. B. Hircok

Computer Science 305H/FA – Theory of computation

A basic introduction to the theoretical foundation of computer science. Topics include models of computers, including finite automata, regular expressions, context-free grammars and Turing Machines. Basics of formal languages with application to syntax of programming languages. Unsolvable problems and their relevance to the semantics of programming. Prerequisite: *Computer Science 230*. *Computer Science – Mathematics 260* recommended. W. Feng

Computer Science – Physics 321 – Electricity and magnetism (see Physics)**Computer Science – Physics 325H – Electronics** (see Physics)**Computer Science 332H/FA – Fundamentals of operating systems**

The objective of the course is to introduce students to the concepts of computer operating systems. Topics to be covered include process management, process synchronization, interprocess communication, processor allocation, primary and secondary storage management, file management, resource sharing, security, user interfaces. Illustrated with examples from contemporary operating systems. Prerequisite: *Computer Science 202H* and *230*. Excludes *Computer Science 430*. B. Patrick

Computer Studies – Philosophy 337 – Cyberpersons and cybermorality (see Philosophy)**Computer Science 338H/FA – Systems programming**

Introduction to programming and systems management in multi-user, multi-tasking operating systems. Topics include shell programming, command language design and interpretation and UNIX and/or Windows system-level programming. Additional topics may include interprocess communication, remote procedure calls, sockets and client/server architectures. Prerequisite: *Computer Science 202H* and *230*. T. Yamakami

Computer Science 340H/WI – Database management systems

An examination of database systems and their use in the management of large quantities of data. Topics to be covered include history of databases, hierarchical and network systems, entity-relationship diagrams, relational model, normalization theory, SQL and Oracle, concurrency control and transaction management. Prerequisite: *Computer Science 202H*. W. Feng

Computer Science – Mathematics 341 – Linear and discrete optimization (see Mathematics)

Computer Studies – Philosophy 341H – Logic and logical theories (see Philosophy)**Computer Studies 345H/WI – Societal impact of computing technology**

Applications, use and impact of computers and information technology on societies. Topics covered are chosen from the following: historical impact of computers and automated technology; ethical, legal and privacy issues for software, software development and computerized information storage and flow; software risks; computer technology in medicine, law and education. Prerequisite: One of *Computer Studies 261H, 280H, 283H, Computer Science 102H, 151H*.

Computer Science 347H/FA – Modelling and simulation

Introduction to the concepts of modelling and the quantitative tools used, with concentration on modelling and how it relates to computing. Topics include the foundations of modelling, discrete event simulation through third- and fourth-generation languages and queuing theory as a mathematical foundation for modelling. Prerequisite: *Computer Science 202H. Mathematics – Statistics 155H* or equivalent recommended. *R. Hurley*

Computer Studies 348H – Data modelling/world modelling

Database design fundamentally depends on data modelling – that is, the construction of a conceptual, working model of the enterprise. Various methodologies for data modelling are discussed, as well as entity-relationship and object-oriented diagramming techniques. Newer forms such as intranets, groupware and knowledge management systems are looked at. Prerequisite: *Computer Studies 261H*. (Not offered this year.)

Computer Studies 350H/FA – Artificial intelligence and artificial life

Introduction to the ideas and paradigm shifts generated by artificial life and artificial intelligence research. As sciences of the artificial, their connection to “natural” sciences and other disciplines, such as biology, psychology, philosophy and organization studies is explored. Current research, as well as conceptual and historical background is examined. Prerequisite: 1.5 credits in *Computer Studies/Science*. *S. Regoczei*

Computer Science 355H/FA – Software development for artificial intelligence

Introduction to the concepts of artificial intelligence (AI) and the programming languages and software development unique to AI. Topics include knowledge representation, reasoning, reasoning with uncertain knowledge, expert systems, knowledge acquisition, and neural networks. Prerequisite: *Computer Science 202H*. *J. Jury*

Computer Science 358H/WI – Visual programming

Overview of common visual programming design paradigms and languages including Visual Basic and Java2. Object-oriented design and implementation of visual systems and web applications. Java for the design of platform independent interactive web pages. Applets, browser control, sound, graphics and animation using the Java Native Interface. Introduction to UML. Prerequisite: *Computer Science 202H*. *J. Jury*

Computer Science 360H – Advanced systems theory

A comprehensive overview of the systems studies field, including general systems theory, cybernetics and system dynamics. Systems analysis as a modelling discipline, with “limits-to-growth” global models and organizations as artificial lifeforms used as illustrations. Significance of holistic thinking and the systems approach to problem solving is emphasized. Prerequisite: *Computer Studies 261H* or *262H*. Not offered this year.

Computer Science 362H/WI – Object-oriented analysis and design

Systems analysis and systems modelling using the Unified Modeling Language (UML). Requirements specifications, conceptual analysis, modelling the world in structures, methods, data, dynamic processes and state spaces. Alternatives for implementing object-oriented designs on different software platforms. Prerequisite: *Computer Studies 262H* or *Computer Science 104H*.

Computer Studies – Anthropology 363H – Computer applications in anthropology
(see Anthropology)**Computer Science 364H – Data processing, file structures and legacy systems**

Introduction to file structures and processing. Use of COBOL for data processing, including use of advanced language features and modular software engineering techniques. Efficiency in data management. Prerequisite: *Computer Science 202H*; or both *Computer Studies 262H* and *Computer Science 102H*. (Not offered this year.)

Computer Studies 396H/FA – Special topic: Fundamentals of Human-Computer Interaction (HCI)

An introduction to the basic concepts of HCI from cultural, psychological, and physiological perspectives. Also called “usability” or “human factors” studies, HCI draws on a wide variety of disciplines and data dealing with the general principles governing the interaction of people with technology. The course will have theoretical and practical components. Prerequisite: *Computer Science 102H*. Staff

Computer Science 401H/FA – Software engineering: Theory

This course covers the theory necessary for the project component in *Computer Science 402*, examining software engineering methodologies for the development of large software projects. Topics include: requirements analysis and feasibility studies; requirements specification; software design; implementation and installation; testing; system maintenance; impact assessment; quality assurance; project management; user training. Prerequisite: *Computer Science 202H, 304H*; a half-credit from *Computer Science 332H, 337H, 340H, 362H*; and an additional *Computer Science* half-credit at the 300- or 400-level. Co-requisite: *Computer Science 402*. Excludes *Computer Science 400*. B. Hircock, W. Feng and J. Jury

Computer Science 402/WI – Software engineering: Project

This course continues on from *Computer Science 401H* with the implementation of the group software engineering project. (Note: although this is a Winter term course, it counts as a full 1.0 credit). Required co-requisite: *Computer Science 401H*. Excludes *Computer Science 400*.

B. Hircock, W. Feng and J. Jury

Computer Science 410H/FA – Comparative programming languages

Functional, declarative and imperative programming languages, their structures as intellectual objects, and their future uses. General language design goals, data and control abstractions and structures. Prerequisite: *Computer Science 202H* and one *Computer Science* credit at the 300- or 400-level. B. Patrick

Computer Science – Mathematics 415H – Mathematical logic (see Mathematics)**Computer Science – Mathematics 416H – Computability** (see Mathematics)**Computer Science 431H/FA – Computer networks**

This course provides students with a detailed examination of computer networks. Topics to be covered include the fundamentals of data communication, network architecture and protocols (with an emphasis on TCP/IP and 802 standards), end-to-end and routing protocols, local area and wide area networks, security, and network management. Prerequisite: *Computer Science 202H, 332H* and a *Computer Science* half-credit at the 300- or 400-level. Recommended: *Computer Science 338H*.

Computer Science 432H/WI – Distributed systems

The objective of the course is to give students a thorough examination of distributed systems and algorithms. Topics to be covered include architectures for distributed systems, communications, naming, synchronization, distributed file systems, replication, fault tolerance and security. Examples will be drawn from both contemporary and classical distributed systems implementations. Prerequisite: *Computer Science 202H, 332H* and a *Computer Science* half-credit at the 300- or 400-level. R. Hurley

Computer Science 435H/FA – Advanced computer architectures

A continuing examination of computer architectures. The course begins with a detailed examination of RISC architecture and then continues with superscalar and superpipelined architectures. Other topics to be covered include multiprocessor architectures, advanced issues in caching, parallel algorithms and a variety of other current architectures. Prerequisite: *Computer Science 202H, 332H* and a *Computer Science* half-credit at the 300- or 400-level. T. Yamakami

Computer Science 455H/WI – Classic artificial intelligence

An in-depth study of the classical areas of artificial intelligence and their related algorithms. Topics will include single agent heuristic search (bruteforce and informed), two-person game playing (minimax and alphabeta) and automated theorem proving (resolution refutation and unification). Prerequisite: *Computer Science 202H* and a *Computer Science* half credit at the 300- or 400-level. Recommended: *Mathematics – Computer Science 260*. B. Patrick

Computer Science/Studies 490, 491H, 492H – Advanced reading course

Students are required to submit a course proposal and have it approved by the Curriculum Committee of the program before enrolling.

Computer Studies 498H/WI – Special topic: Design, intangibles, and saving the world

The “computer” is designed to be the “supermachine,” not merely just another tool. It is seen as being able to destroy the world and humanity with it. Saving the world from globalizing bureaucrats and abstract intangibles is a millennial quest, pursued either with the help of, or against, the “supermachine.” The course explores the cultural implications of this struggle. Prerequisite: *Computer Studies 283H* and 1.5 additional credits in Computer Studies (COST). *S. Regoczai*

Computing & Physics

Program Co-ordinators

Chair of Computer Science/Studies

R. T. Hurley, B.Sc. (New Brunswick), Ph.D. (Waterloo)

Chair of Physics

A. J. Slavin, M.Sc. (Toronto), Ph.D. (Cambridge) (*on leave Fall session*)

Professors

See listing of faculty in Computer Science/Studies, Mathematics and Physics.

This program is designed to meet the needs of students interested in electronic, hardware and interfacing aspects of computers, which are based on fundamental principles of physics and mathematics.

Note

- There is no minor in Computing & Physics.

BACHELOR OF SCIENCE PROGRAM IN COMPUTING & PHYSICS

- see p. 22 for requirements which apply to all undergraduate degree programs.
- The Honours program in Computing & Physics is a sequence of courses offered by the Computer Science/Studies program, the Mathematics department and the Physics department that compose an integrated whole. It is not available as a joint-major degree.
- For information on individual courses see calendar entries for Computer Science/Studies, Mathematics and Physics.

The single-major Honours program. At least 5 credits in Computer Science/Studies, 5 in Mathematics and 5.5 in Physics, including:

- *Computer Science 102H, 104H, 202H, 230, 304H, 332H, 431H and 432H*
- 0.5 credit from *Computer Science 338H, 340H, 347H or 358H*
- *Mathematics 110, 135H, 155H, 200, Mathematics – Computer Science 260, Mathematics – Physics 205H and 305H*
- *Physics 100, 202H, 203H, 400, Physics – Computer Science 321 and 325H*
- at least 1 of *Physics 420, 430 or 440*

Cultural Studies

Telephone: (705) 748-1011 ext. 1771

Fax: (705) 748-1826

E-mail: cultstudies@trentu.ca

Web: www.trentu.ca/cultural_studies

Professor and Chair of the Program

To be named

Canada Research Chair

D. Panagia, B.A. (Winnipeg), M.Litt. (Oxford), M.A., Ph.D. (Johns Hopkins)

Professors

R. J. Dellamora, A.B. (Dartmouth College), B.A. (Cambridge), M.Phil., Ph.D. (Yale); **J. Fekete**, M.A. (McGill), Ph.D. (Cambridge); **S. Kane**, B.A. (Carleton), M.A., Ph.D. (Toronto) (*on leave 2004-2005*); **D. Torgerson**, B.A. (California-Berkeley), M.E.S. (York), M.A., Ph.D. (Toronto); **A. Wernick**, M.A. (Cambridge, Toronto), Ph.D. (Toronto)

Associate Professors

Z. Baross, B.A. (U.B.C.), M.A. (London), Ph.D. (Amsterdam); **J. Bordo**, B.A. (McGill, Alberta), M.A., M.Phil., Ph.D. (Yale); **A. O'Connor**, B.A. (Trinity College, Dublin), M.A., Ph.D. (York); **V. Hollinger**, M.A. (Concordia), M.Ed. (Newcastle-upon-Tyne), Ph.D. (Concordia)

Assistant Professor

V. de Zwaan, B.A. (Trent), M.A. (McGill), Ph.D. (Toronto); **J. Penney**, B.A., M.A. (Alberta), Ph.D. (Duke)

Professors Emeriti

I. McLachlan, M.A. (Oxford); **D.F. Theall**, B.A. (Yale), M.A., Ph.D. (Toronto); **D. Smith**, M.A., D. Phil. (Oxford)

Adjunct Faculty

M. Blyth, B.A. (Toronto), M.A. (York); **G. Cameron**, B.A., M.A. (Trent), Ph.D. (York); **M. Cherry**, A.O.C.A.; **C. Marsh**, B.Mus., B.A. (Ottawa), M.A., (York); **G. Murphy**, B.A., M.A. (Carleton), Ph.D. (Alberta); **F. Pickrem**, B.A. (Dalhousie), M.A. (Acadia); **E. Thomson**, B.A., M.A. (Trent), Ph.D. (Warwick); **R. Winslow**, B.A. (Trent)

Associated Faculty

Y. Thomas, B.A. (UQAM), M.A., Ph.D. (Montréal)

The program offers study in the nature and criticism of culture and the arts, chiefly literature, film, drama, music and the visual arts, in the light of guided interdisciplinary enquiry into the social conditions in which thought and expression take shape. The program as a whole provides the kind of academic experience which may have pre-professional value to a cultural and social critic or to a teacher of literature, drama or the arts who wishes to emphasize workshop experience in future teaching. This focus of practical and speculative needs is realized in courses whose overall concern is for the way in which theoretical understandings inform as they are informed by actual practice by artists, critics and thinkers in different conditions. The focus is preserved on the level of term-work in that actual production experience or critical work in cultural activity is recommended as a way of sustaining a reflection on cultural problems and conditions in Canada and elsewhere.

Revision to requirements for the joint-major Honours degree in Cultural Studies

Beginning in the 2001–2002 academic year the Honours degree in Cultural Studies consists of 20 (rather than 19) credits. This change took effect with students selecting their majors after the start of the 2001–2002 academic year, and does not apply to any students who previously declared a major in Cultural Studies.

Notes

- Students who wish to take an upper-level Cultural Studies course in first year must obtain the permission of the instructor and of the chair of the program.
- 200- or 300-level courses are open to any upper-year student, subject only to the conditions specified below in the descriptions of certain individual courses.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in Cultural Studies, if they have met the requirements for the joint-major General degree (see below).

BACHELOR OF ARTS PROGRAM IN CULTURAL STUDIES

- see p. 22 for requirements which apply to all undergraduate degree programs.
- The following courses are recommended for first-year students who are considering a major in Cultural Studies: *Classical Literature 100*, *English 100*, *History 120*, *Philosophy 101*, *Sociology 100* and any of the 100-level language courses in the department of Modern Languages & Literatures.
- Cultural Studies majors have the option of pursuing a comprehensive Cultural Studies degree or a Specialization in a particular area of concentration (A. Image, Sound, & Performance [the Arts cluster]; B. Writing & Narrative [the Comparative Literature cluster]; C. Film, Video, & Media [the Mass Media cluster]; D. Social Thought [the Speculative cluster]). The transcripts of students graduating with a degree in Cultural Studies, who have successfully completed the requirements of one of the Specializations, will contain the notation "with a Specialization in [the appropriate Specialization]." For courses offered within Specializations, see below:

A Image, Sound & Performance		B Writing & Narrative		C Film, Video & Media	D Social Thought	
205	315	222	424	220	230	450
211	345	225	425	235	231	4952
216	346	226	4953	280	250	49510
217	370	229	4954	380	255	49511
245	375	321	4956	381	260	49512
246	470	322		385	265	
270	4951	325		435	332	
305	4958	329		480	350	
311		355			356	

- Workshop courses (211, 217, 226, 311, 346, 375 and 385) are open only to students in the single-major or joint-major program in Cultural Studies, or to students who have taken or are taking concurrently a text-based course in the field of the workshop course or by permission of the instructor.
- 400-level courses are normally limited to students in the fourth year of the Honours Cultural Studies program. However, Cultural Studies majors may petition the program to enrol in a 400-level course as part of a General program.
- Reading courses are available as *Cultural Studies 390* or *490*. Registration in reading courses is contingent on permission of the instructor and of the chair of the program before Early Registration. The deadline for submission of an outline is March 31 of the year previous to undertaking the course. Students wishing to take more than one *Cultural Studies 390* or *490* reading course must petition the chair of the program.
- For detailed information about special topics courses, students should attend the Honours information session scheduled in the Spring or visit the program office at that time for an Honours information brochure.

The single-major Honours program. At least 9 credits in Cultural Studies, including:

- *Cultural Studies 100*

For students choosing a Specialization:

- at least 4 credits in the Specialization
- 4 additional credits from at least one other Specialization category
- at least 2 of the 9 credits in Cultural Studies at the 400-level

For students choosing the comprehensive option:

- at least 2 credits from each of two Specialization categories
- 1 credit from a third category
- 3 additional credits
- at least 2 of the 9 credits in Cultural Studies at the 400-level

The joint-major Honours program. At least 7 credits in Cultural Studies, including:

- *Cultural Studies 100*

For students choosing a Specialization:

- at least 4 credits in the Specialization
- 2 additional credits from at least one other Specialization category
- at least 2 of the 7 credits in Cultural Studies at the 400-level

For students choosing the comprehensive option:

- at least 2 credits from each of two Specialization categories
- 1 credit from a third category
- 1 additional credit
- at least 2 of the 7 credits in Cultural Studies at the 400-level

The single-major General program. At least 6 credits in Cultural Studies, including:

- *Cultural Studies 100*

For students choosing a Specialization:

- at least 3 credits in the Specialization

- 2 additional credits from at least one other Specialization category

For students choosing the comprehensive option:

- at least 1 credit from each of three Specialization categories
- 2 additional credits

The joint-major General program. At least 5 credits in Cultural Studies including:

- *Cultural Studies 100*

For students choosing a Specialization:

- at least 3 credits in the Specialization
- 1 additional credit from at least one other Specialization category

For students choosing the comprehensive option:

- at least 1 credit from each of three Specialization categories
- 1 additional credit

Please consult the academic timetable to determine which of the courses listed will be offered in 2004–2005.

Cultural Studies 100 – Introduction to the study of modern culture

Introduction to the interpretation and foundations of modern culture. Looks at the problem of how to make sense of art works and other forms of cultural expression, both as texts and as practices in a context. What distinguishes twentieth-century culture from, and what connects it to, the tradition of modern culture as a whole? Lecture and seminar, weekly. Field trip and reading package fee: \$50. *Staff*

Cultural Studies 211 – Drawing

An introduction to basic ideas and skills in the visual arts. The course will deal with concepts and realities of form and the making of signs and symbols in two and three dimensions. Lecture and studio instruction four to six hours weekly. Open to Cultural Studies majors and students with the pre- or co-requisite *Cultural Studies 216, 217 or 315* or permission of the chair of the program. Art materials fee: \$65. Enrolment limited to 20. *Staff*

Cultural Studies 216 – Introduction to visual studies

A communications approach in aesthetic theory for the study of the visual arts, images and sites. The course considers ritual, mnemonic, architectural and sculpture sites in preparation for addressing modern picturing from its extraordinary emergence in Renaissance art and science, to its hyperbolic technologization in photographic, filmic, televisual and digital media. Field trips to include two days in Montreal during the Fall. Fees between \$50.00 and \$90.00 to cover basic field trip costs. *J. Bordo*

Cultural Studies 217 – Introduction to visual studies (workshop)

The course follows the agenda of *Cultural Studies 216*. A workshop course, it will permit students to devise visual and artmaking projects that give expression, articulate and make materially discursive the issues discussed in *Cultural Studies 216*. Co-requisite: *Cultural Studies 216*. Studio space provided with regular group discussions. Workshop fee: \$75. *J. Bordo*

Cultural Studies – Women's Studies 220 – Women and popular culture (see Women's Studies)

Cultural Studies 222 – Culture in the novel

A study of the ways in which European, British and American novelists such as Balzac, Flaubert, Tolstoy, Dostoyevsky, Brontë and Stowe, in the nineteenth century, and Kafka, Woolf, Mann, Solzhenitsyn and Fitzgerald, in the twentieth century, engage with complex historical, artistic, and cultural issues still relevant today. Lecture, seminar weekly. *V. de Zwaan*

Cultural Studies 225 – Oral narrative

The world of voice, oral thought, the spoken story, and literature without texts. Emphasizing myth and wonder tale, the course serves students of creative writing and theatre, world literature, and teachers seeking to recreate the oral conditions of learning in their classrooms. (Offered as a full course in Fall session.) *S. Kane*

Cultural Studies 226 – Storytelling workshop

An exploration of the world of story by enacting the storyteller's relationship to everyday discourse, oral tradition, literary models and to the community that survives by listening. The course offers experience in the improvisation and performance of all kinds of narrative from the ancestral tale to postmodernist self-writing. *Staff*

Cultural Studies – English 229 – Science fiction

Introduction to the history, theory and representative works and authors of science fiction, from Shelley and Wells to Dick, Le Guin, and Gibson. Will examine stories of alternate worlds, technoculture, and space adventure, including cyborgs, alien encounters, non-contemporary earth life and human destiny. Two hours weekly. *J. Fekete*

Cultural Studies – Native Studies 230 – An introduction to the key concepts and issues in post-colonial theory (see Native Studies)**Cultural Studies 235 – Mass media and society**

Introduction to the history, sociology and critical interpretation of contemporary mass-communicated culture, both as an overall formation and with reference to such specific elements as the newspaper press, advertising, network TV and recorded popular music. Excludes *Cultural Studies – Sociology 240*. One-hour lecture and seminar weekly. *A. O'Connor*

Cultural Studies 245 – Music and society

An introduction to music as cultural practice, exploring formulations of the relationship between music and society offered by ethnomusicology, sociology, semiotics and feminist theory. Emphasis is placed on the development of listening skills through engaging with a variety of musical texts/practices from Western art music, popular music and world music traditions. No formal background in music required. Lecture and seminar weekly. Field trip fee: \$45. *Staff*

Cultural Studies 250 – Civilization and human nature

An introduction to the thought of several of the founders of modern social and cultural theory including Marx, Nietzsche and Freud. Such topics explored as ideology and illusion, reason and eros, individualism and alienation, and the idea of progress. One-hour lecture, seminar weekly. *A. Wernick*

Cultural Studies 255 – Cultural politics

Political questions are always posed in a cultural context, but the 20th century saw modern culture itself posed as a political question. This course examines culture as a political question from the avant-garde in art to social movements arising from the 1960s to oppositions today between administrative and public spheres. *D. Torgerson*

Cultural Studies 260 – The making of the modern body

Focuses upon modernity's relation to the body as project and work site. Examines the expression and experience of (post)modern subjectivity, and the burgeoning of body in various media. Feminist criticism, film theory, psychoanalysis and social theory will explore the modern body as a site of power (relations), desire, signification, subjection and subjectification. Two-hour lecture and one-hour seminar weekly. *Z. Baross*

Cultural Studies 265 – Sex/sexuality/sexual difference

An interdisciplinary introduction to feminism and queer theory which explores the problematic of sexual identity. Through considerations of theoretical and artistic texts we will explore what we mean when we refer to someone's sex, gender, or sexuality, as well as the social, political, and ethical implications of these terms. *J. Penney*

Cultural Studies 270 – History and theory of theatre

An introduction to theatre as a performing art. Examines the evolution of European theatrical practice and dramatic theory from Classical Greek tragedy to late nineteenth century naturalist drama. Topics include acting styles, theatre design and architecture, the audience and the institution of theatre in relation to religion, morality and politics. Two hours weekly. *V. Hollinger*

Cultural Studies 280 – History and theory of the cinema

An introduction to critical interest in the cinema through texts representing film movements and major trends in film theory. Films from around the world and critical studies on the medium, apparatus, institution and spectator, will help us consider a technologized visuality, the production of meaning and pleasure and the politics of criticism. Weekly films, lectures and seminars. Field trips fee: \$10. *Z. Baross*

Cultural Studies 305 – Art, culture, theory (mimesis)

Art and the formation of cultural modernism (1898 – 1940). Initially the course explores the very idea of culture as a necessary complementarity between the concepts of sign and representation through intensive reading of de Saussure, Freud, and Benjamin. Topics for 2004-2005: speech/writing, fragments, dream, and the emergence of critical topography. Lecture, seminar weekly. *J. Bordo*

Cultural Studies 311 – Visual arts studio: Form, process, object (and image)

Introduction to the relationship between traditional ideas of form and dynamic process-oriented strategies in two and three dimensions. Emphasis on the free exploration of material and concepts; alternative directions and implications of any given problem; questions of scale and "richness"; the development of active creative strategies. Open to Cultural Studies majors and students with the pre- or co-requisite *Cultural Studies 216, 305 or 315* or permission of the chair of the program. Enrolment limited to 20. Art materials fee: \$65.00. *Staff*

Cultural Studies 315 – Visual studies

"Why paint?" is the principal question addressed by this course. Three episodes in the history of modernist art – Manet, Baudelaire and the emerging avant-garde in Paris circa 1860, Cezanne into analytic cubism 1900–1908, Duchamp in Munich 1910 – provide the setting for addressing late high modernist, minimalist and contemporary art practices. Field trip fee: \$45. *J. Bordo*

Cultural Studies – English 321 – Literature and society (see English Literature)**Cultural Studies 322 – Experimental fiction**

The course traces an international "tradition" of modern and contemporary experimental texts, focusing on such figures as Proust, Joyce, Kafka, Borges, Calvino, Rushdie and Pavic. Individual works are related to theories of narrative which help to place them in both aesthetic and cultural contexts. Weekly lectures and seminars. *V. de Zwaan*

Cultural Studies 325 – Literary and critical theory

A study of ideas about the nature and function of literature, interpretation and evaluation. Contemporary theoretical models, including Lukacs, Barthes, Foucault, Cixous, and Homi Bhabha, will be considered in the tradition of Plato, Aristotle, Sidney, Coleridge, Shelley, Eliot, Richards, and Frye. Two hours weekly. *V. de Zwaan*

Cultural Studies – English 329 – Utopia (future fiction)

A study of the speculative social imagination in utopian and anti-utopian literature of Western modernity. Will examine the narrative construction of equality, progress, gender, identity, technoculture, globalization, and cultural politics from More and Bacon in the Renaissance to Orwell, Piercy, and Lem in contemporary science fiction. Two hours weekly. *J. Fekete*

Cultural Studies – International Development Studies 332 – Media and development

Issues of global media, cultural imperialism and alternatives such as Third Cinema and community radio. Considered in the context of Latin American cultural studies: debates about the lettered city, a hidden civilization, postmodernism, cultural memory and popular culture. Two-hour seminar weekly. *A. O'Connor*

Cultural Studies 345 – World music

Through a focus on African and Afro-diasporic musics (from West African drumming to blues, and calypso) we will consider the problematics of "world music" a category that raises issues of globalization and hybridity. We will examine selected musical traditions, mapping the complex, interactive networks of musical performance, pleasure, and politics. Prerequisite: *Cultural Studies 245* or permission of instructor. Field trip fee: \$45. *Staff*

Cultural Studies 346 – Audio production and performance workshop

A collaborative workshop in basic practical sound production and performance skills relating to music and audio art. Production aspects address recording technologies, radio art and sound ecology. Performance techniques include vocal and instrumental work, stage presentation, and composition. An underlying theme of the course is social engagement. Pre- or co-requisite: *Cultural Studies 245 or 345* or permission of the program. Workshop fee \$40. *Staff*

Cultural Studies – Anthropology 350 – The crisis of modern critical discourse: The "return of the religious" and the political

In the context of the resurgence of religious attitudes and their penetration into the political domain, the course explores the critique of religion by Nietzsche, Marx, and Freud; the "disenchanted" world of Adorno, Baudrillard, and Bataille; and theories of religion by Durkheim, Bataille and Derrida. Weekly lectures and seminars. *Z. Baross*

Cultural Studies – English 355 – Sexuality and textuality

How sex(es) become texts and vice-versa, focusing on the representation and experience of transgender and transsexuality from Victorian sexology, through Virginia Woolf and Radclyffe Hall to contemporary fiction by Leslie Feinberg and theory by Jay Prosser; the cultural politics of AIDS; and postmodern transformations of ballet and opera in video. Seminar weekly. *R. Dellamora*

Cultural Studies – Canadian Studies 356 – Landscape: Site, wilderness and the sublime

A course on aesthetic theory and the visual arts examining landscape through the symbolics of the wilderness. The “(t)opological” focus is Canada’s claim as the proper name for the wilderness. Considers texts going back to Cartier and de Champlain and critically situates The Group of Seven in the context of European landscape art. Thrice monthly meetings with at least two art-related site excursions. Field trip fee: \$60.00. *J. Bordo*

Cultural Studies 370 – Theatre in the twentieth century

Investigates the changing roles of 20th-century playwrights, performers and audiences, including attention to the social, political and aesthetic implications of modernity and postmodernity. Examines the theories and practices of, among others, Stanislavski, Brecht, Artaud, Pirandello, Beckett, Churchill and Wertebaker. Lecture and seminar weekly. *V. Hollinger*

Cultural Studies 375 – Theatre workshop: Staging ideas

A practical course in modern acting with a focus on methods of performance in works that dramatize ideas and the conflicts between them. Pre- or co-requisite: *Cultural Studies 270 or 370* or permission of the chair of the program. Workshop fee: \$50. Enrolment limited to 20. Four hours weekly. *Staff*

Cultural Studies 380 – Text and image in visual culture

Examines the relation between the word and the image as discussed in cultural theory and made manifest in literature, painting and the cinema. Critical texts by Panofsky, Barthes, Metz, Foucault, Mitchell and Deleuze will be supplemented by the works of such film directors as Peter Greenaway, Jean-Luc Godard and Sergei Eisenstein. Weekly lectures, fortnightly seminars and occasional screenings. *Z. Baross*

Cultural Studies – Women’s Studies 381 – World cinema

A study of cinema in historical and aesthetic context. Focus for 2004-2005: TBA. Weekly films, lectures and seminars. Field trip fee: \$10. (Interested students who have previously taken *Cultural Studies 381* for credit may contact the program for special consideration.) *Staff*

Cultural Studies 385 – Film workshop

Pre- or co-requisite: any Film, Video, or Media course. Students carry out a series of visual exercises in slides and Super-8 film followed by a short 16mm sound film. The emphasis is on cross-cultural filmmaking. *A. O’Connor*

Cultural Studies 387 – Community-based research project

Students are placed in research projects with community organizations in the Peterborough area. Each placement is supervised jointly by a faculty member and a representative of a community organization. For details see “Community-Based Education Program” (p. 206).

Cultural Studies 395 – Special topics in cultural studies

Following are examples of special topics courses which may be offered by the program in any given year:

Cultural Studies 401/402D – Honours thesis

A major research project leading to a thesis of about 15,000 words. Two credits in Cultural Studies or one credit in Cultural Studies and one credit in the other discipline in a joint major. For each there is a double fee. Deadline for a thesis abstract and bibliography (signed by the thesis supervisor) is March 31 in the student’s third year.

Cultural Studies 424 – Creative writing and performance

Focusing on work-in-progress, this workshop combines one-to-one critiques with the instructor, group editing of an individual’s work, writing time and the presentation of a piece of writing or performance monologue that serves as the basis of a reflection on writing in conditions of postmodernity. *Cultural Studies 225 or 226* is a valuable pre- or co-requisite, but admission is by permission of instructor following submission of a portfolio by May 1. *S. Kane*

Cultural Studies – English 425 – Advanced studies in literary and critical theory

A consideration of literary and critical theories from Greek mimesis and Anglo-American literariness to post-structuralist, reader-response, feminist, queer, and post-colonialist theories. Figures to be studied include Plato, Aristotle, Sidney, Shelley, Eliot, Richards, Frye, Fish, Lukacs, Barthes, Foucault, Cixous, and Homi Bhabha. Excludes *Cultural Studies – English 325*. Two-hour lecture-seminar weekly. *V. de Zwaan*

Cultural Studies 435 – Advanced topics in mass media and popular culture

Walter Benjamin in the intellectual field. An examination of issues in twentieth-century culture and mass media through the writings of Pierre Bourdieu and Walter Benjamin. Two-hour seminar weekly. *A O'Connor*

Cultural Studies 450 – The crisis of modern critical discourse: community, friendship, love and exile

A close reading of texts in critical/cultural theory, from a perspective broadly designated as "theoretical," drawing on philosophy, literature, literary theory and psychoanalysis. The topic this year: "Community: (structures) of exclusion/inclusion, friendship and love, the figure of the Other and the Exile." Texts by Foucault, Arendt, Agamben, Kristeva, Bataille, Nancy and Derrida. Two-hour seminars weekly. *Z. Baross*

Cultural Studies 470 – Advanced studies in theatre and the performing arts

Special topics have included: experimental directions taken by traditionally marginalized groups; parody and performance; the work of Bertolt Brecht; theories of subjectivity and narrative; performance theory and performance art; and genre experimentation. Pre-requisite: *Cultural Studies 270 or 370*. Three-hour seminar weekly. *Staff*

Cultural Studies 480 – Advanced studies in film

A critical consideration of Cinema and Film Studies. *Staff*

Cultural Studies 495 – Special topics in Cultural Studies

Following are examples of special topics courses which may be offered by the program in any given year:

Cultural Studies 4951 – Special topic: Art, culture, theory (mimesis)

Art and the formation of cultural modernism (1898 – 1940). Initially the course explores the very idea of culture as a necessary complementarity between the concepts of sign and representation through intensive reading of de Saussure, Freud, and Benjamin. Speech/writing, fragments, dream and the emergence of critical topography will be the topics for 2004-2005. *J. Bordo*

Cultural Studies 4952 – Special topic: Nihilism and contemporary culture

Examines nihilism as a critical and descriptive category. After looking at key texts by Nietzsche, Heidegger, and others, considers how the term might be developed today to illuminate such phenomena as "9/11," violence and its cultural representations, the devaluation of non-commodified values and institutions, and the "end of the social." *A. Wernick*

Cultural Studies – English 4953 – Special topic: The subject of the text

How individuals are constituted as subjects in and as readers of texts. With theory by Roland Barthes, Jacques Derrida, Michel Foucault, and Judith Butler and writing by, Oscar Wilde, E. M. Forster, William Burroughs, Patricia Highsmith, and Monique Wittig. Seminar weekly. *R. J. Dellamora*

Cultural Studies – Canadian Studies 4954 – Special topic: Oral scripture

A reading of the mythteller Skaay of Qquuna (?1827-?1905) with an ear to how he performs an enquiry into the Real. A comparison of Pacific Northwest oral theology with sacred texts of Druidical, Judahist and early Christian experience with an eye to Skaay's place in world literature and thought. *S. Kane*

Cultural Studies 4956 – Special topic: Science fiction and contemporary technoculture

The course explores the metaphorical relationship between contemporary science fiction and its cultural/historical present. It examines the speculative nature of some influential theoretical writings that use imagery of science fiction to envisage the (postmodern) present. This course builds upon the historical overview of the literature of science fiction in *Cultural Studies – English 229*. Three-hour seminar weekly. *V. Hollinger*

Cultural Studies 4958 – Special topic: Music and identity

Responding to the surge of recent concerns with identity in music, this course explores the unique condition of music as a non-representational medium that nevertheless acts as a locus for subjective and collective performances of identity across discourses of race, class, technology, gender and sexuality. Lecture and seminar weekly. *Staff*

Cultural Studies 49510 – Special topic: Theories of cultural politics

A focus on culture has emerged at the forefront of theoretical approaches to political resistance and contemporary social movements. This course combines a survey of developments with close readings of texts by key figures. A guiding topic throughout will be the scope and limits of the focus on culture. *D. Torgerson*

Cultural Studies 49511 – The politics of love: The transference and beyond

Examines the political valences of human object attachments as reflected in film, literature, and painting. What does psychoanalysis tell us about the passions which structure our relationship to society and culture? Includes a consideration of the politics of love in works by Plato, Genet, Akerman, Fanon, and Lucian Freud. *J. Penney*

Cultural Studies 49512 – Aesthetics and politics

What is critique? What is value? How do aesthetic responses to these questions compare to political ones? In probing relationships between aesthetics and politics, this course will look at aesthetic moments in political writings and political moments in aesthetic writings, ranging from Plato and Augustine to Arendt, Bourdieu, and Habermas. *D. Panagia*

Reading Courses

Reading courses are available as *Cultural Studies 390* or *490*. Registration in reading courses is contingent on permission of instructor and the chair of the program in advance of early registration. The deadline for submission of an outline is March 31 of the year previous to undertaking the course.

Economics

Telephone: (705) 748-1011 ext. 1331

Fax: (705) 748-1567

E-mail: economics@trentu.ca

Web: www.trentu.ca/economics

Associate Professor and Chair of the Department

T. Drewes, B.A. (Lakehead), Ph.D. (Queen's)

Professors

M. Arvin, B.Sc. (London), M.Phil. (Oxford), Ph.D. (Queen's) (*on leave Winter session*);

D. C. A. Curtis, M.A. (Queen's), Ph.D. (McGill) (*on leave Winter session*); **H. M. Kitchen**, M.A. (McMaster)

Associate Professors

S. Choudhry, M.A. (Chittagong, Bangladesh), M.A. (McGill), Ph.D. (Manitoba);

J. Muldoon, B.Sc. (Brock), M.A. (Guelph), Ph.D. (McMaster)

Assistant Professors

B. Cater, M.A. (Toronto), Ph.D. (York); **B. Lew**, B.Sc. (Alberta), M.B.A. (Alberta), Ph.D. (Queen's)

Professors Emeriti

M. J. Boote, B.A. (Wales), Ph.D. (McGill); **K. S. R. Murthy**, B.Sc. (Andhra), M.Sc. (Karnatak), M.A. (Delhi, Western Ontario), Ph.D. (Western Ontario)

Notes

- C- (60%) or higher in *Economics 101H* and *102H* is a prerequisite for all upper-level Economics courses, with the possible exception of cross-listed courses, for which students should check the prerequisites.
- Courses in Economics at the 200-level, with the exception of *Economics – Administration 220H* and *225H*, are considered equivalent to courses at the 300-level in order to satisfy the University requirement for at least seven credits beyond the 200-level in the Honours program and at least four in the General program.
- Courses in Economics fulfilling University science course requirements for the B.Sc. are marked (Sc) in the individual course descriptions.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in Economics, if they have met the requirements for the joint-major General degree (see below).

BACHELOR OF ARTS AND BACHELOR OF SCIENCE PROGRAMS IN ECONOMICS

- see p. 22 for requirements which apply to all undergraduate degree programs.
- The Economics department offers both a B.A. and a B.Sc. degree.
- *Economics – Administration 220H* and *Economics 320H* fulfill the requirement for one credit in Mathematics for the B.Sc. in Economics.
- With departmental permission, one credit in Economics at the 300-level may be substituted for the unspecified Economics credit at the 400-level in the single-major program; for the joint-major program the equivalent substitution is 0.5 credit.
- It is strongly recommended that students in the joint-major program complete *Economics – Administration 220H* and *225H* before fourth year.
- It is strongly recommended that students in the single-major program complete *Economics 320H* and *325H* before fourth year.
- *Economics 401* is now optional and may be substituted (by economics majors only) for *Economics 404* only under specific conditions. Students must obtain departmental approval during the Spring pre-registration period.

The single-major Honours program. At least 10 credits in Economics. The program must include:

- *Economics 101H, 102H, 200, 201, 320H, 325H, 400H, 404, 405H, Economics – Administration 220H* and *225H*
- 1 credit in Economics at the 400-level
- 2 additional credits in Economics
- for the B.Sc., 14 science credits in the program as a whole

The joint-major Honours program. At least 7.5 credits in Economics. The program must include:

- *Economics 101H, 102H, 200, 201, 400H, 404, 405H, Economics – Administration 220H* and *225H*
- 0.5 credit in Economics at the 400-level
- 1 additional credit in Economics
- for the B.Sc., 14 science credits in the program as a whole

The single-major General program. At least 6 credits in Economics. The program must include:

- *Economics 101H, 102H, 200, 201, Economics – Administration 220H* and *225H*
- 2 additional credits in Economics
- for the B.Sc., 11 science credits in the program as a whole

The joint-major General program. At least 5 credits in Economics. The program must include:

- *Economics 101H, 102H, 200* and *201*
- 2 additional credits in Economics
- for the B.Sc., 11 science credits in the program as a whole, including *Economics – Administration 220H* and *225H*

Please consult the academic timetable to determine which of the courses listed will be offered in 2004–2005.

Economics 101H/FA/WI – Introductory microeconomics (Sc)

An introductory treatment of markets, prices and outputs based on the behaviour of consumers, business firms and the structure and organization of industries. Selected economic and social policies including taxation, international markets and trade policy are also examined. Three lecture hours weekly. *Staff*

Economics 102H/FA/WI – Introductory macroeconomics (Sc)

An introductory study of the total economy in terms of GDP, employment, unemployment, prices, and inflation using simple economic models. The Canadian banking system, monetary policy, the government sector, government budgets and fiscal policy are examined. Selected aspects of international trade, the balance of payments, and exchange rates are included. Three lecture hours weekly. *Staff*

Economics 200 – Microeconomic theory and its applications (Sc)

An examination of problems of demand and supply, market equilibrium, market structure, income distribution and economic welfare. A comprehensive treatment of the theoretical techniques used to deal with problems of resource allocation and applications of those techniques. Develops skills necessary for advanced work in economics. Prerequisite: *Economics 101H, 102H*. Three lecture hours weekly, seminar weekly. *Staff*

Economics 201 – Macroeconomic theory and policy (Sc)

A study of output (GDP), employment and inflation in the national economy, including the effects of monetary, fiscal and exchange rate policies. Current macroeconomic models are used to examine fluctuations in economic activity, and the objectives, design, implementation and evaluation of monetary and fiscal policies. Prerequisite: *Economics 101H, 102H*. Three lecture hours weekly, workshop fortnightly. *Staff*

Economics 217H/FA – Canadian tax policy

Efficiency and equity criteria will be emphasized in the theory and practice of personal income taxation, corporate income taxation, commodity taxation, payroll taxation, local government taxation and income transfers. Prerequisite: *Economics 101H, 102H*. Two lecture hours weekly, seminar as required. *H. Kitchen*

Economics – Administration 220H/WI – Introduction to statistics for economics and management (Sc)

This course introduces statistical methods in an applied setting with an emphasis on the development of theory through interactive learning. The material covered includes descriptive statistics, data analysis, inference and estimation techniques. Prerequisite: *Economics 101H, 102H*. Three lecture hours weekly, problem session fortnightly. *T. Drewes*

Economics – Administration 225H/FA – Introduction to mathematics for economics and management (Sc)

Topics include partial and general equilibrium, elementary linear algebra, elementary calculus, basic optimization theory, comparative static analysis and linear programming. These tools are integrated with and applied to micro and macroeconomic theory and managerial economics. Prerequisite: *Economics 101H, 102H*. Three lecture hours and workshop weekly. *J. Muldoon, M. Arvin*

Economics – International Development 231H/FA – The economics of developing countries (Sc)

Alternative models of growth and development, examination of sectoral problems of LDCs – agriculture, education, health, environmental issues, etc. Planning strategies for economic development and the diversity of the development experience. Excludes *Economics 330*. Prerequisite: *Economics 101H, 102H*. Three lecture hours weekly, seminar fortnightly. *S. Choudhry*

Economics – Canadian Studies 260H – Canadian economic development

Aspects of the development of a small, open economy; the application of economic analysis to the study of Canadian development to 1929. Topics include the settlement process, expansion of labour markets, resources and their exploitation, industrialization, an assessment of regional economic differences. Prerequisite: *Economics 101H, 102H*. Two lecture hours weekly, seminar fortnightly. (Not offered this year.)

Economics – Canadian Studies 261H/FA – The Canadian economy

Problems and policies in Canadian economic development since 1929. Topics include: the legacy of the Depression; government policy on trade, immigration and foreign investment; macroeconomic stabilization and social welfare; trends in employment and unemployment; exchange rate policy; fiscal policy and government budget deficits. Prerequisite: *Economics 101H, 102H*. Two lecture hours weekly, seminar fortnightly. *B. Lew*

Economics 301H/FA – Monetary theory (Sc)

A study of the monetary theory and financial markets, as they relate to the performance of the aggregate economy and affect the design, implementation and impact of monetary policy in Canadian and international contexts. Prerequisite: *Economics 201* or permission of instructor. Two lecture hours weekly, seminar fortnightly. *Staff*

Economics 302H/WI – Monetary institutions and policy

An exploration of money, banking, monetary control, financial intermediation and financial markets in Canada. Recent Canadian experience with monetary, financial and exchange rate policy is examined. Prerequisite: *Economics 101H, 102H*. Two lecture hours weekly, seminar fortnightly. *Staff*

Economics 311H/FA – International trade (Sc)

Theories of world trade and the analysis of trade policy and trade relationships in the world economy. The theory and practice of protectionism and preferential trade arrangements. The role of multinational corporations in international trade and investment. The role and performance of international organizations. Environmental aspects of trade. Prerequisite: *Economics 101H, 102H*. Three hours weekly. (Support course for International Development Studies.) *B. Lew*

Economics 312H/WI – International finance (Sc)

The operation of international money and capital markets and theoretical and policy aspects of exchange rates and the balance of payments. Macroeconomic management of domestic open economies. The evolution, management and reform of the international financial system. Prerequisite: *Economics 101H, 102H*. Three hours weekly. (Support course for International Development Studies.) *B. Lew*

Economics 316H/WI – Government expenditure analysis (Sc)

Efficiency criteria will be emphasized in the analysis of public goods, voting behaviour, externalities, natural monopolies, cost-benefit analysis, economic impact analysis, intergovernmental grants, structure and growth of government expenditures in Canada. Prerequisite: *Economics 101H, 102H*. Two lecture hours weekly, seminar as required. *H. Kitchen*

Economics 320H/WI – Econometrics (Sc)

The objective of this course is to provide an elementary but comprehensive introduction to econometrics. Simple and multiple regression; regression diagnostics; problems with testing economic relationships are all introduced within the classical regression framework. Prerequisite: *Economics – Administration 225H, 220H* (or equivalents). Pre- and co-requisite: *Economics 200, 201* or permission of instructor. Three lecture hours weekly. *B. Cater*

Economics 321H – Applied econometrics (Sc)

This course integrates economic theory, econometric technique and practical applications in empirical economics. The emphasis in this course is on the issues which arise in building empirical models. Students will gain practical skill in the development of empirical models of the economy. Prerequisite: *Economics 320H*. Three lecture hours weekly. (Not offered this year.)

Economics 325H/FA – Mathematical economics and economic models (Sc)

A continuation of *Economics – Administration 225H*. Mathematical techniques used to set and solve economic problems. Topics include total differentiation, comparative static analysis under equilibrium models, unconstrained optimization, classical programming, concavity, convexity, quasi-concavity and quasi-convexity, homogeneous functions, integral calculus, exponential and logarithmic functions. Economic applications will be stressed throughout. Prerequisite: *Economics – Administration 225H*, (or equivalents). Pre- and co-requisite: *Economics 200, 201* or permission of instructor. Three lecture hours weekly. *M. Arvin*

Economics – International Development 333H/WI – The economics of global interdependence (Sc)

The world economy and the place of less developed nations in an increasingly interdependent global system. Topics include: rethinking development: a market-friendly strategy for the poor; the growing literature on foreign aid, debt and development; and increasing interdependence in areas such as technology and financial flows. Prerequisite: *Economics 101H, 102H*. Three lecture hours weekly, seminar fortnightly. *S. Choudhry*

Economics 341H – Industrial organization (Sc)

Study of markets including perfect competition, monopoly and imperfect competition. Special topics include product differentiation, collusion, measures of market concentration, mergers and vertical integration, predatory pricing, entry deterrence, advertising, vertical restraints, and antitrust policies. Prerequisite: *Economics 200*. Pre- and co-requisite: *Economics – Administration 225H* or equivalent. Two lecture hours weekly, seminar fortnightly. (Not offered this year.)

Economics 350H/WI – Economics of industrial relations

Employer-employee relations; human resource management; theory and practice of collective bargaining; strikes; economic aspects of unions; economics of labour policy. Prerequisite: *Economics 101H, 102H*. Three hours weekly. *Staff*

Economics 351H/FA – Labour economics (Sc)

The economic theory of labour markets used to understand their outcomes and evaluate policies. Topics include wage determination, minimum wages, human capital theory, returns to schooling, optimal compensation and unemployment. Prerequisite: *Economics 101H, 102H*. Two lecture hours weekly, tutorial fortnightly. *T. Drewes*

Economics 361H – An economic history of the industrial revolution

Economic and quantitative analyses of European industrialization with special emphasis on the British experience. Topics include the origins of factories, technical change, worker-firm relations, the standard of living debate and the decline of British industry. Prerequisite: *Economics 101H, 102H*. Two lecture hours weekly, seminar fortnightly. (Not offered this year.)

Economics 362H/WI – Growth of the global economy, 1850 to present

The process of the industrialization and globalization of the world economy. Topics include the classic gold standard and international investment, the expansion of trade, labour migration, the diffusion of technology, core-periphery relations, the retreat from globalization after World War I, growth after 1945, rise of global institutions. Prerequisite: *Economics 101H, 102H*. Three hours weekly. *B. Lew*

Economics – Environmental & Resource Studies – Canadian Studies 378H – Canadian renewable resource economics (see Environmental & Resource Science/Studies)**Economics – Environmental & Resource Studies 381H/FA – Environmental economics (Sc)**

This course examines the links between economic activity and environmental degradation. Topics include the valuation of environmental amenities, the use of incentives in regulation, the economics and environmental effects of market failure and the rationale for government intervention. Prerequisite: *Economics 101H, 102H* or permission of instructor. Three lecture hours weekly. *B. Cater*

Economics – Canadian Studies 384H – Health economics

Economic analysis of the organization, financing and utilization of health services. Patterns of consumer and provider behaviour; the functioning and regulation of markets for health services; policy issues in the provision of health care in Canada. Prerequisite: *Economics 101H, 102H* or permission of instructor. One-hour lecture, two-hour seminar weekly. (Not offered this year.)

Economics 398H – Special topics in economic analysis and policy: International monetary relations

The evolution of international monetary relations through four historical periods: the classical gold standard, the inter-war period, the Bretton Woods system and era of flexible exchange rates. Particular emphasis on the balance of payments adjustment mechanism and distribution of the adjustment burden, the globalization of capital markets and effects on developing countries. Prerequisite: *Economics 101H, 102H*. Two lecture hours weekly, seminar fortnightly. (Not offered this year.)

Economics 400H/WI – Topics in advanced microeconomic theory (Sc)

Development of utility theory from axiomatic preference theory, the structure of utility functions; duality in consumer theory; decision-making under uncertainty; general equilibrium models; welfare economics; game theory. Prerequisite: *Economics 200, Economics – Administration 225H, 220H* (or equivalents). Three lecture hours weekly. *B. Cater*

Economics 401 – Research project (Sc)

This course is designed to help students develop independent research skills by working on a topic of individual interest, under the close supervision of a faculty adviser. Prerequisite: Open only to single or joint economics majors in the fourth year of the Honours program provided specific departmental criteria are met. Students must consult with the department prior to registration. Department approval required. *T. Drewes and staff*

Economics 404 – Research methodology in economics (Sc)

This course is designed to develop students' abilities to conduct empirical research in economics. Each year a topical area of interest will be selected that will provide students with skills in assessing available literature, conducting empirical research, and reporting the resulting economic analysis in the form of a major paper. Open only to students who have earned at least 15 credits. Prerequisite: *Economics – Administration 220H, Economics – Administration 225H* (or equivalents), *Economics 200, Economics 201*. Excludes *Economics 402H* and *Economics 403H*. Three seminar hours fortnightly. *T. Drewes, B. Cater*

Economics 405H/FA – Topics in advanced macroeconomics (Sc)

A study of selected topics and issues including: growth theory, output and inflation models, business cycles and fluctuations, and alternative approaches to monetary and fiscal policy design and implementation. Prerequisite: *Economics 201, Economics – Administration 225H, Economics – Administration 220H* (or equivalents). Two lecture hours weekly, seminar fortnightly. *D. Curtis*

Economics 420H – Topics in econometrics (Sc)

This course examines theory and practice in the estimation and testing of economic models with an emphasis on alternatives to simple regression, as they relate to particular economic and statistical issues in an applied setting. Students gain experience in evaluating and refining empirical models of the economy. Prerequisite: *Economics 320H* or permission of instructor. Two lecture hours weekly, seminar fortnightly. (Not offered this year.)

Economics 425H – Advanced topics in mathematical economics (Sc)

A continuation of *Economics 325H*. Advanced mathematical techniques of direct relevance and operational significance to economics. Topics include classical and nonlinear programming, comparative static analysis, differential equations, dynamic optimization, optimal control theory, phase diagrams, dynamic stability/instability in systems, economics of risk and uncertainty. Prerequisite: *Economics 325H* or permission of instructor. Two lecture hours weekly, seminar fortnightly. (Not offered this year.)

Education

Trent University offers three options for students intending to teach at the Elementary or Secondary levels in the Ontario School system:

- Consecutive Bachelor of Education program, leading to a B.Ed. from Trent University, open to students who have already completed a university degree
- Queen's-Trent Concurrent Teacher Education program, leading to a B.A. or B.Sc. from Trent University and a B.Ed. from Queen's University, involving school placement and educational theory from the first year of university
- Emphasis in Teacher Education (see p. 217), for students in an Honours program at Trent University who plan to enroll in a Consecutive Education program at Trent University or elsewhere after completing their Trent degree.

CONSECUTIVE BACHELOR OF EDUCATION PROGRAM

Telephone: (705) 748-1011 ext. 7564

E-mail: schoolofed@trentu.ca

Fax: (705) 748-1144

Web: www.trentu.ca/education

Director of the School of Education and Professional Learning

D. P. Berrill B.A. (Northwestern), M.A. (Toronto), Ph.D. (East Anglia)

Assistant Professors

M. Lee, B.A., B.Ed. (Toronto), M.Ed., Ph.D. (Queen's); **W. Smale**, H.B.P.E., B.Ed., M.Ed., B.Sc. (Lakehead), Ph.D. (Alberta)

Lecturers

M. Larsen, B.A. (Toronto), B.Ed. (Mount Allison), M.A. (London, U.K.); **K. Young**, B.A., B.Ed., M.Ed. (York)

The School of Education and Professional Learning, which offers the Consecutive Bachelor of Education program, combines attention to individual learners in small class settings with a community-based approach. The School works in close collaboration with Trent University's Faculty of Arts and Science and with educators in the wider community. Through their university credits in foundational and curriculum courses, students are exposed to recent advances in theory and research. During their classroom placements they are encouraged to use this expertise to think critically about their own professional practice through attention to individual needs, multiple modes of learning, human diversity, and critical thinking in content areas.

Programs of study are offered, in both full-time and part-time formats, for students interested in teaching at the Primary/Junior levels (K – Grade 6) and at the Intermediate/ Senior levels (Grades 7–12). The full-time program is one-year (August 30 to May 20); the part-time program must be completed within a two year period. Teaching subjects at the Intermediate/Senior levels include: Biology, Chemistry, Computer Science, Dramatic Arts, English, French as a Second Language, Geography, History, Mathematics, Native Studies and Physics.

Admission Requirements

Applicants must have an approved degree from an accredited degree-granting institution and a minimum average of 70%, based upon the final 10 full year credits (or equivalents) in an undergraduate degree program. College transfer courses will not be considered. Applicants are also

required to submit a Profile of Experience, including two letters of reference. For further details on the academic requirements and information about the Profile of Experience, please consult www.trentu.ca/education/consecutive. Applicants with Honours (4-year) degrees are given preference over those with General (3-year) degrees. Members of a visible racial minority, Aboriginal Peoples and persons with a disability may apply for an equity admissions place in the Bachelor of Education Program using the Equity Admission Form.

Preparation of a Professional Teaching Portfolio and a Teaching Tool Kit

All candidates will prepare a Professional Teaching Portfolio based on expected teaching competencies, in line with the Ontario College of Teachers' *Standards of Practice for the Teaching Profession* and the *Ethical Standards for the Teaching Profession*. These portfolios will be developed over the course of the program, incorporating material from courses and from practicum experiences. As well as documenting the candidates' professional practice and the relation of research to practice, the portfolios will include the candidates' reflections on their own teaching beliefs and practices as well as on-going professional learning plans.

All candidates will also prepare a Teaching Tool Kit, a compendium of materials selected from courses and practicum experiences to provide ease to access research-based knowledge to support their teaching practice.

Practicum Handbook for Teacher Candidates

All teacher candidates are advised to refer to the policies and procedures in the *Practicum Handbook for Teacher Candidates*.

Certification

Upon successful completion of the program candidates are awarded a B.Ed. degree. The School of Education and Professional Learning reserves the right to recommend candidates to the Ontario College of Teachers for the Certificate of Qualification to teach in Ontario. Non-Canadians completing the program may be recommended to the College, but it is the responsibility of the candidates to provide acceptable and appropriate immigration documentation permitting them to work in Ontario. Effective January 2003, prospective teachers must pass the Ontario Teacher Qualifying Test in order to become members of the Ontario College of Teachers and receive Ontario teaching certification. For further information about the Ontario College of Teachers, please see www.oct.on.ca.

Notes

- "J" signifies 0.25 credits; "H" signifies 0.5 credits; "K" signifies 0.75 credits.
- All program options require 5 full credits including 0.5 practicum credit.
- All curriculum courses incorporate the Ontario Curriculum policy documents and other related Ministry policy documents that direct the professional practice of teachers in Ontario.
- All courses reflect the *Standards of Practice for the Teaching Profession* and the *Ethical Standards for the Teaching Profession* described by the Ontario College of Teachers.

PROGRAM OPTIONS

1. Primary/Junior streams in the public school system

– Education 4111H, 4112H, 4121K, 4132J, 4331J, 4341J, 4351H*, 4561H, 4562H, 4571H, 4572H

2. Primary/Junior streams in the Catholic school system

– Education 4111H, 4121K, 4132J, 4331J, 4342K, 4351H*, 4561H, 4562H, 4571H, 4572H

3. Intermediate/Senior streams in the public school

– Education 4211H, 4212H, 4221K, 4232J, 4331J, 4341J, 4351H*
– 2 credits from the Intermediate/Senior curriculum courses

4. Intermediate/Senior streams in the Catholic school system

– Education 4211H, 4221K, 4232J, 4331J, 4342K, 4351H*
– 2 credits from the Intermediate/Senior curriculum courses

* In the part-time program 4351H will be replaced by EDUC 4352J in Year 1 and EDUC 4353J in Year 2.

Please consult the academic timetable to determine which of the courses listed will be offered in 2004-2005

FOUNDATIONAL COURSES

Education 4111H – Characteristics of learners I: Child development (Primary/Junior)

This course will examine contemporary theory and research on child development with an overview of cognitive, physical and social/emotional development. It will explore theories of intelligence, learning models, and the neurological and psychological bases of motivation as these relate to children in educational contexts.

Education 4112H – Characteristics of learners II: Sociocultural influences on learning (Primary/Junior)

This course will develop a critical understanding of the sociocultural influences on curriculum implementation and pupil learning. Sociocultural models and theories of critical pedagogy will be examined and applied to contemporary school and Primary/Junior classroom contexts.

Education 4121K – Creating a positive learning environment (Primary/Junior)

This course will examine current theories of instructional design, classroom management and assessment as they interact to create a positive learning environment in the Primary/Junior context. Students will examine and critically assess contemporary models of design, assessment and management to develop personal philosophies related to their own teaching.

Education 4132J – Supporting at-risk readers (Primary/Junior)

Teacher candidates will apply current educational research and theory regarding reading instruction, learning disabilities and learning styles in supporting at-risk readers at the Primary and Junior levels. They will gain an appreciation of the importance of literacy in pupils' lives and will deepen their empathy and understanding of the challenges faced by pupils with learning disabilities.

Education 4211H – Characteristics of learners I: Adolescent development (Intermediate/Senior)

This course will examine contemporary theory and research on adolescent development with an overview of cognitive, physical and social/emotional development. It will explore theories of intelligence, identity development, learning models, and the neurological and psychological bases of motivation as these relate to adolescents in educational contexts.

Education 4212H – Characteristics of learners II: Sociocultural influences on learning (Intermediate/Senior)

This course will develop a critical understanding of the sociocultural influences on curriculum implementation and pupil learning. Sociocultural models and theories of critical pedagogy will be examined and applied to contemporary school and Intermediate/Senior classroom contexts.

Education 4221K – Creating a positive learning environment (Intermediate/Senior)

This course will examine current theories of instructional design, classroom management and assessment as they interact to create a positive learning environment in the Intermediate/Senior context. Students will examine and critically assess contemporary models of design, assessment and management to develop personal philosophies related to their own teaching.

Education 4232J – Supporting at-risk readers (Intermediate/Senior)

Teacher candidates will apply current educational research and theory regarding reading instruction, learning disabilities and learning styles in supporting at-risk readers at the Intermediate/Senior levels. They will gain an appreciation of the importance of literacy in pupils' lives and will deepen their empathy and understanding of the challenges faced by pupils with learning disabilities.

Education 4331J – Learners with special needs (Primary/Junior & Intermediate/Senior)

This course provides an introduction to current research, theory and best practices in special education. Models of inclusion and individualized instruction in the classroom are explored with emphasis on legal responsibilities, approaches to program modification and successful strategies in classroom accommodation.

Education 4341J – History, educational law and professional conduct (Primary/Junior and Intermediate/Senior)

This course provides students with an overview of legal, ethical and professional issues. It is an introduction to past and current theoretical/philosophical knowledge in applied educational ethics as practiced in the profession. Teacher candidates will begin to learn about their legal rights and responsibilities to all stakeholders in Ontario education.

Education 4342K – Education and schooling: The historical, legal and social context for Ontario Catholic education (Primary/Junior and Intermediate/Senior)

This course is designed to introduce students to the distinctive nature of Catholic Education in Ontario. It will explore: theological foundations; historical foundations; ethical standards; the governing legislative framework; Church Social teachings; critical issues, and the distinctive character of curriculum in the Catholic school system.

Education 4351H – Practicum (Primary/Junior and Intermediate/Senior)

Teacher candidates will apply research and theoretical knowledge from their courses in planning and implementing learning opportunities in mainstream and alternative settings appropriate to the age level they plan to teach. For all candidates, practicum placements will include a total of 86 days in three different contexts: an individualized context with a pupil at risk in reading; 61 days of classroom teaching; and an alternative setting practicum, proposed by the candidate.

Education 4352J – Practicum; Part Time Program Year 1 (Primary/Junior and Intermediate/Senior)

Teacher candidates will apply research and theoretical knowledge from their courses in planning and implementing learning opportunities in mainstream and alternative settings. Practicum placements will include a total of 86 days over two years in three contexts: tutoring pupils at risk in reading; 61 days of classroom teaching; an alternative setting practicum.

Education 4353J – Practicum; Part Time Program Year 2 (Primary/Junior and Intermediate/Senior)

Teacher candidates will apply research and theoretical knowledge from their courses in planning and implementing learning opportunities in mainstream and alternative settings. Practicum placements will include a total of 86 days over two years in three contexts: tutoring pupils at risk in reading; 61 days of classroom teaching; an alternative setting practicum. Practicum components not completed in the first year of the program will be completed in year 2.

CURRICULUM COURSES**Education 4561H – Mathematics (Primary/Junior)**

This course in teaching Primary/Junior Mathematics for prospective teachers focuses on developing a community of mathematics learners. Current theories related to teaching and learning mathematics will be examined within the context of rich mathematical investigations. A variety of manipulatives and technologies will be explored as tools for learning and assessment.

Education 4562H – Science and social studies (Primary/Junior)

This course will emphasize construction of conceptual understanding of the theoretical foundations of science and social studies. Students will explore a range of teaching/learning and assessment approaches at the Primary/Junior levels which support active construction of knowledge in these areas.

Education 4571H – Language & literacy (Primary/Junior)

In this course students will develop an understanding of the theories of language development and learning and recognize how these impact upon curriculum planning. The course will focus on teaching students strategies for implementing a balanced literacy program in Primary and Junior classrooms.

Education 4572H – Integrated arts & physical education (Primary/Junior)

In this course students will learn how to include the arts in the curriculum. Using current philosophy and theory candidates will focus on how pupils learn, know, create and express ideas through the arts. The course will also focus on the theory and practice of teaching health and physical well being.

Education 4661 – Biology (Intermediate/Senior)

This course examines contemporary learning theory pertaining to Biology education. Students will explore the philosophical basis of appropriate teaching methodologies to facilitate pupil learning and understanding. The unifying principles of the life sciences will form a framework for the course.

Education 4662 – Chemistry (Intermediate/Senior)

Students will investigate theories of instructional practice supporting student learning in Chemistry. The foundational concepts of chemical science will be linked to contemporary theories of assessment and evaluation of pupil performance to develop effective teaching and learning models.

Education 4663 – Computer science (Intermediate/Senior)

This course prepares students to teach Computer Science, Engineering Technology or Information Technology at the Intermediate and Senior levels. Contemporary theories and strategies for teaching programming, software applications and on-line learning will be linked with theoretical models of assessment and evaluation to develop dynamic instructional programs.

Education 4664 – Mathematics (Intermediate/Senior)

This course will focus on pupil construction of mathematical concepts and skills through engagement as a community of learners. Exploration of current pedagogical theory in mathematics, teaching practices, assessment techniques, and the skills and content areas of the curricula will be critically examined.

Education 4665 – Physics (Intermediate/Senior)

Students will explore contemporary research and theoretical foundations of Physics instruction, focusing on pupil construction of knowledge. They will apply these theories in designing effective physics courses which incorporate a wide range of teaching practices and assessment techniques to engage all learners.

Education 4671 – Dramatic arts (Intermediate/Senior)

Students will critically examine current theory and practice of teaching Dramatic Arts in the Intermediate and Senior divisions. They will apply educational theory and pedagogy in exploring a variety of teaching and assessment strategies for developing effective drama programs.

Education 4672 – English (Intermediate/Senior)

Students will develop a thorough understanding of the theoretical foundations for teaching reading/literature, language, writing, and media studies in the Intermediate and Senior divisions. They will apply research and theory in planning a balanced curriculum, evaluating student performance, preparing students to meet literacy expectations, and modifying programs according to individual needs.

Education 4673 – French as a second language (Intermediate/Senior)

This course will explore current pedagogical research and theory that supports the teaching/learning of listening, speaking, reading and writing in French as a Second Language. It will focus on the models for the integration of language skills and culture and investigate a variety of instructional strategies for creating effective lessons and teaching units.

Education 4674 – History (Intermediate/Senior)

This course will provide students with the fundamentals in contemporary theory and practice of teaching History to pupils in the Intermediate and Senior divisions. Students will be given opportunities to study the research and theoretical foundations for various models of history instruction, methods of assessment and evaluation of pupils and effective course design.

Education 4681 – Geography (Intermediate/Senior)

This course will provide students with the professional skills necessary to be effective teachers of Geography at the Intermediate and Senior levels. Through a variety of teaching strategies and reflective practice, candidates will investigate contemporary research, theories and methods of teaching Geography and assessing pupil learning in the subject area.

Education 4682 – Native Studies (Intermediate/Senior)

Students will explore theoretical foundations for teaching Native Studies in Intermediate and Senior classrooms. They will apply these theories to a critical examination of a variety of teaching and assessment practices appropriate to the subject area.

QUEEN'S-TRENT CONCURRENT TEACHER EDUCATION PROGRAM

Telephone: (705) 748-1011 ext. 7464

E-mail: concurrented@trentu.ca

Fax: (705) 748-1008

Web: www.trentu.ca/education/concurrent

Co-ordinator

R. Laframboise, B.A. (Windsor, Ontario), Dip. Ed. Post Bac. (Western Ontario), M.Sc.Ed. (Niagara, New York), Ph.D. (Santa Barbara, California)

The Queen's-Trent Concurrent Teacher Education program, co-sponsored by Trent University and by the Faculty of Education, Queen's University, is designed for students intending to teach in either elementary or secondary schools. Candidates enrol in courses at both universities, which qualify them for a Bachelor of Arts or a Bachelor of Science degree from Trent and a Bachelor of Education degree from Queen's.

The Concurrent Education program differs from consecutive programs in which students complete a university degree before doing any Education credits; it involves school placements and educational theory from the first year of university. Of the seven Education credits required for the Concurrent program, the first 2 or 2.5 credits are completed at Trent University and the remaining credits are completed in the final year at Queen's University in Kingston.

Teacher preparation in the program is both academic and field-based. Teacher candidates acquire experience with schools in each year of the program while pursuing academic and professional studies. The candidates' involvement in the professional program increases from year to year and includes an extended Practicum in the final year.

The program encourages candidates to do an Honours degree at Trent. Candidates for an Honours B.A. or B.Sc. take a full fourth year in arts and science and complete the final year of the Education program in their fifth year at Queen's University in Kingston.

Students in this program carry an additional course load. This requires that students make appropriate adjustments to their external commitments in order to accommodate class time, placement, and course assignments.

PROGRAM OPTIONS

Candidates elect to specialize in one of two program options: Primary/Junior (Grades JK to 6) or Intermediate/Senior (Grades 7 to 12).

1. Primary/Junior

This option is designed for candidates who intend to begin their teaching careers in elementary schools. Candidates are prepared to teach all subjects in the Primary division (Junior Kindergarten to Grade 3) and the Junior division (Grades 4 to 6). Candidates admitted to this program are required to include in their overall Arts/Science program:

- 0.5 university credit in Anthropology, Psychology or Sociology
- 1 university credit in language or linguistics (or Grade 12 U or Grade 12 M equivalent)
- 1 university credit in Mathematics (or Grade 12 U or Grade 12 M equivalent)
- 1 university credit in visual or performing arts (or Grade 12 U or Grade 12 M equivalent)
- 1 university credit in physical or natural science (or Grade 12 U or Grade 12 M equivalent)

2. Intermediate/Senior

This option prepares candidates to teach in the Intermediate division (Grades 7 to 10) and the Senior division (Grades 11 to 12). Candidates admitted to this option must select two teaching subjects for the study and development of teaching methods. The undergraduate degree must include five credits in one teaching subject and four credits in the other, with the exception of French where five credits must be completed. The undergraduate degree must also include 0.5 credit in Anthropology, Psychology or Sociology. Candidates may select teaching subjects from Biology, Chemistry, Computer Science, Dramatic Arts, English, French, Geography, History, Mathematics, Native Studies, Physics, and Visual Arts.

Selection criteria

Approximately 125 candidates are accepted in first year. Candidates are selected according to the following criteria:

- Academic standing (best 6 Grade 12 U, Grade 12 M or equivalent): weighting 50%
- minimum 75% average is required to apply
- Personal Statement of Experience (showing candidate's related experience and stressing responsibility, leadership and initiative): weighting 50%. This supplemental application is due mid February. See our website for exact date and downloadable application form.
- For students transferring from a community college or another university who wish to apply for Concurrent Education the total number of non-Trent credits may not exceed 3.0.

We are actively seeking:

- candidates who have experience with special needs populations and in multicultural settings
- candidates (especially women candidates) who are interested in teaching science in both elementary and secondary schools.

Each year up to 15 spaces are available for second year entry into the Queen's-Trent Concurrent Teacher Education program (in addition to the 125 spaces already available). Only students who are intending to complete a four-year Honours degree and who are presently in year one of an Arts and Science program at Trent University are eligible to apply. A B- (70%) or better average in a maximum of five full credits is required.

Notes

- Candidates are strongly encouraged to consult with the Queen's-Trent Concurrent Teacher Education office to ensure that courses selected meet program requirements. A list of acceptable courses is made available to Concurrent Teacher Education candidates at information sessions before Early Registration. Responsibility for ensuring that all B.A./B.Sc. and B.Ed. requirements are fulfilled rests with the candidate.
- Candidates are expected to complete both the Trent Bachelor's degree and the Queen's Education degree within six years of their initial registration at Trent. All Trent degree requirements and Education prerequisites for the final year at Queen's must be completed by the end of July preceding final year enrolment.
- Candidates in the General degree program must obtain a cumulative average of 70% in Arts/Science courses before proceeding to the final year of the program.
- Candidates wishing to have Dramatic or Visual Arts as teaching subjects may not be able to take the required number of credits at Trent University and may therefore need to take courses at other universities or by correspondence. Candidates planning Dramatic or Visual Arts as teaching subjects should consult the Concurrent Teacher Education office concerning suitable courses.
- Candidates are required to pay Queen's course fees for their Education courses. These are not covered by Trent University Arts and Science tuition fees.
- Candidates are required to pay a nominal course materials fee in Education courses.

Program format and required courses for students entering in the Fall of 2004 (Program requirements are subject to change without notice)

Common Year

Year 1 at Trent (0.75 credit)

- up to 5 credits towards a B.A. or B.Sc.
- Introduction to Teaching (0.25 credit)
- Introduction to Curriculum (0.25 credit)
- Experiences in Schools I (0.25 credit) which is the equivalent of two full weeks in schools.

At the end of Year 1, students must choose the Primary/Junior or Intermediate/Senior program.

Primary/Junior Program

Year 2 at Trent (0.75 or 1.0 credit)

- up to 5 credits towards a B.A. or B.Sc.
- Curriculum Selection (0.25 or 0.5 credit)
- Experiences in Schools (Primary/Junior) II (0.5 credit) which is the equivalent of three full weeks in schools.

Year 3 at Trent (0.75 credit)

- up to 5 credits towards a B.A. or B.Sc.
- Critical Issues and Policies (Primary/Junior) (0.5 credit)
- Experiences in Schools (Primary/Junior) III (0.25 credit) which is the equivalent of three full weeks in schools.

Year 4 at Trent

- up to 5 credits towards a B.A. or B.Sc.
- no Education courses required

Final Year at Queen's (PJ) (4.5 or 4.75 credits) (in Kingston)

- All remaining Curriculum courses (2.0 or 2.25 credits)

- Foundations Course Elective (0.5 credit)
- Education Studies or Foundations Course Elective (0.5 credit)
- Focus Course Elective (0.5 credit)
- Practicum Course 190 (1.0 credit) (in-school experience of approximately 16 weeks)

Intermediate/Senior Program

Year 2 at Trent (0.75 credit)

- up to 5 credits towards a B.A. or B.Sc.
- Professional Development (Intermediate/Senior) (0.25 credit)
- Experiences in Schools (Intermediate/Senior) II (0.5 credit) which is the equivalent of three full weeks in schools.

Year 3 at Trent (0.75 credit)

- up to 5 credits towards a B.A. or B.Sc.
- Critical Issues and Policies (Intermediate/Senior) (0.5 credit)
- Experiences in Schools (Intermediate/Senior) III (0.25 credit) which is the equivalent of three full weeks in schools.

Year 4 at Trent

- up to 5 credits towards a B.A. or B.Sc.
- no Education courses required

Final Year at Queen's (IS) (4.75 credits) (in Kingston)

- All remaining Curriculum courses (2.0 credits)
- Foundations Course Elective (0.5 credit)
- Education Studies or Foundations Course Elective (0.5 credit)
- Focus Course Elective (0.5 credit)
- Theory and Professional Practice (PROF 191) (0.25 credit)
- Practicum Course 190 (1.0 credit) (in-school experience of approximately 16 weeks)

For further details please visit the Queen's University, Faculty of Education website at educ.queensu.ca.

English Literature

Telephone: (705) 748-1011 ext. 1733
Fax: (705) 748-1823

E-mail: english@trentu.ca
Web: www.trentu.ca/english

Professor and Chair of the Department

J. E. Neufeld, B.A. (Toronto), M.A., Ph.D. (Chicago)

Professors

L. W. Conolly, B.A. (Wales), M.A. (McMaster), Ph.D. (Wales), F.R.S.C.; **R. J. Dellamora**, A.B. (Dartmouth College), B.A. (Cambridge), M.Phil., Ph.D. (Yale); **J. A. Fekete**, B.A., M.A. (McGill), Ph.D. (Cambridge); **G. A. Johnston**, B.A. (Toronto), M.A. (Harvard); **S. L. Keefer**, B.A., M.A., Ph.D. (Toronto); **O. S. Mitchell**, B.A., M.A. (Alberta), Ph.D. (London); **M. A. Peterman**, A.B. (Princeton), M.A., Ph.D. (Toronto) (*on leave 2004-2005*); **Z. H. Pollock**, B.A. (Manitoba), Ph.D. (London); **F. B. Tromly**, B.A. (Grinnell), M.A., Ph.D. (Chicago) (*on leave Winter session*)

Associate Professors

S. W. Brown, B.A., M.A. (Windsor), B.A., Ph.D. (Queen's), F.S.A. (Scot.) (*on leave 2004-2005*); **J. A. Buckman**, B.A. (McGill), M.A. (Sussex), Ph.D. (Montréal) (*on leave*); **K. A. Chittick**, B.A., M.A. (Toronto), Ph.D. (Edinburgh) (*on leave 2004-2005*); **L. J. Clark**, B.A., M.A. (Toronto), Ph.D. (Virginia); **G. D. Eathorne**, B.A. (New Zealand), M.A. (Canterbury); **M. C. Eddy**, B.A., M.A. (Western Ontario), Ph.D. (Toronto); **D. K. Glassco**, B.A. (Queen's), M.A. (Melbourne), Ph.D. (London); **E. A. Popham**, B.A., M.A. (Manitoba), Ph.D. (Queen's)

Assistant Professors

S. J. Bailey, B.A. (Queen's), M.A., Ph.D. (Toronto); **R. Bode**, B.A., M.A., Ph.D. (Toronto); **S. Chivers**, B.A. (Calgary), Ph.D. (McGill); **J. Findon**, B.A. (British Columbia), M.A., Ph.D.

(Toronto); **H. M. Hodges**, B.A. (Queen's), M.A., Ph.D. (Toronto); **M. Steffler**, B.A. (Victoria), M.A., Ph.D. (McMaster)

Conjunct Associate Professor

A. M. Allcott, M.A. (Utah), Ph.D. (SUNY, Buffalo)

Professors Emeriti

R. D. Chambers, B.A. (McGill), B.Litt. (Oxford); **S. F. Gallagher**, B.A. (Ireland), M.A. (Western Ontario), Ph.D. (Ireland); **E. M. Orsten**, M.A. (Oxford), Ph.D. (Toronto); **G. Roper**, M.A., Ph.D. (Chicago)

In the English department at Trent University we introduce our students to the vast sweep of literature in English from its beginnings over a thousand years ago in Anglo-Saxon England to its current status as the global medium of culture and communication. We study the language of our daily existence functioning at its full force, in works of the imagination which confront the pressing and enduring issues in our lives and our society. Our goal is to enhance students' love and understanding of literature in English and to enable them to develop the reading, writing and analytical skills that are crucial to academic and professional success in the Information Age. We believe that the best way of achieving this goal is by exchanging and testing ideas in small-group discussions (of about 12 students) led by experienced and dedicated teachers.

Revisions to requirements

- Beginning in the 2001–2002 academic year the Honours degree in English consists of 20 (rather than 19) credits. This change took effect with students selecting their majors after the start of the 2001–2002 academic year, and does not apply to any students who previously declared a major in English.
- Beginning in the 2002–2003 academic year, *English 100* no longer satisfies the F category requirement. This change will take effect with students selecting their majors after the end of the 2001–2002 academic year, and will not apply to any students who have previously declared a major in English.

Notes

- *English 100* or any four credits are a prerequisite for all upper-level English courses.
- C- (60%) or higher in *English 100* is a prerequisite for *English 205*.
- 200-level courses in English are considered equivalent to 300-level courses in order to satisfy the University requirement for at least seven credits beyond the 200-level in the Honours program and at least four in the General program.
- 400-level English courses are normally limited to English majors and joint-majors who have completed 15 credits and have Honours standing. In exceptional circumstances and when space is available, third-year students may be allowed to enrol in 400-level courses, by petition to the Honours Advisor (see below).
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in English, if they have met the requirements for the joint-major General degree (see below).
- For further information on the English department, please visit the department website at www.trentu.ca/english.

BACHELOR OF ARTS PROGRAM IN ENGLISH

- see p. 22 for requirements which apply to all undergraduate degree programs.
- 200- and 300-level courses may be taken in the second, third or fourth year of the program, with the exception of *English 205*, which must be taken in the second year.
- The last five credits in the Honours program must include at least three 400-level credits in English taken at Trent in the single-major program, and at least two in the joint-major program.
- With the exception of *English 100* and *205*, each English course is assigned to a category. Each of categories A to E encompasses a single literary period. Category F consists of courses which are not confined to a particular period, but which focus on genres, literary theory and criticism, and the history of ideas. For specific category requirements for the B.A. in English, see below.

A	B	C	D	E	F
800 to	1500 to	1642 to	1790 to	1900 to	Genres,
1500	1642	1790	1900	Present	etc.
230	220	201	212H	229	310
331H	250H	251H	213H	265	316H
332	253H	300	231	266H	317H
333H	254H	302H	232	267H	325
431	420	434	320	340	329
432	433		321	345	355
			435	350	360H
			436	352H	361H
				353H	370
				365H	375
				371	385
				440	425
				450	470
				460	4953
				465	
				466	
				475	

- Up to one credit in the following courses may be substituted for a credit in English: *Classical Literature* 100, 200, 300; *Cultural Studies* 205, 222, 225, 270, 322, 370, 4954; *German* 220, 221H, 222H; *German – Women's Studies* 314H; *Philosophy* 316; *Spanish* 326. However, none of the above courses fulfils a category requirement.
- It is recommended that students considering graduate studies in English complete an upper level course in a second language.
- Information meetings for students intending to major in English are held during the Winter session, when the details of the English program are outlined. All inquiries should be directed to the chair of the department.
- Information meetings for students intending to enter the fourth year of the Honours program are held during the Winter session, when the details of the next year's 400-level course offerings and of application procedures are outlined. All inquiries should be directed to the Honours advisor: Professor E. Popham, Peter Gzowski College (e-mail: epopham@trentu.ca).

The single-major Honours program. At least 10 credits in English, including:

- *English* 100 and 205
- 8 additional credits, including at least 0.5 credit in each of the six categories
- 3 of the 10 English credits at the 400-level

The joint-major Honours program. At least 8 credits in English, including:

- *English* 100 and 205
- 6 additional credits, including at least 0.5 credit in 5 different categories
- 2 of the 8 English credits at the 400-level

The single-major General program. At least 6 credits in English, including:

- *English* 100 and 205
- 4 additional credits, including at least 0.5 credit in 4 different categories, at least 2 different categories from A to C, and at least 2 different categories from D to F

The joint-major General program. At least 5 credits in English, including:

- *English* 100 and 205
- 3 additional credits, including at least 0.5 credit in 3 different categories, at least 1 category from A to C, and at least 1 category from D to F

Please consult the academic timetable to determine which of the courses listed will be offered in 2004-2005.

English 100 – Introduction to English literature

This course focuses on selected periods, issues, forms and movements from the broad spectrum of literature in English. Z. Pollock and staff, D. K. Glassco

English 201 – Milton and his age

An examination of Milton's development as man and artist through the study of his major works (including *Comus*, "Lycidas," *Areopagitica*, *Paradise Lost*, *Paradise Regained* and *Samson Agonistes*) and selected works of contemporary authors. Weekly lecture and seminar. (Offered this year and in alternate years.) *E. Popham*

English 205 – Form and context in literature

An introduction to form in literature and to the cultural and critical contexts which influence our responses to literature. The course explores a wide range of works, and draws on parallels between literary and non-literary language and between literature and the other arts. Emphasis will be placed upon learning through writing. Prerequisite: C- (60%) or higher in *English 100*. Weekly three-hour workshop. *E. Popham and J. Neufeld*

English 212H/FA – Early Romantics

A study of the "Romantic revolution" in politics, mores, philosophy, religion and aesthetics as represented in the writings of Blake, Wordsworth, Coleridge and others (such as Rousseau, Burke, Wollstonecraft) in the early Romantic period. Excludes *English 210*. Weekly lecture and seminar. *L. J. Clark*

English 213H/WI – Later Romantics

A study of the social, political, historical and poetic aftermath of the "Romantic revolution" as represented in the writings of Byron, the Shelleys, Keats, Austen and other writers of the Napoleonic and late Romantic era. Excludes *English 210*. Weekly lecture and seminar. *L. J. Clark*

English 220 – Studies in Shakespeare

An examination of Shakespeare's dramatic career through the study of representative works spanning the period from the early comedies to the last plays. Weekly lecture and seminar. Occasional workshops. *F. B. Tromly and staff*

English – Cultural Studies 229 – Science fiction (see Cultural Studies)**English 230 – The history of the English language**

A study of the development and use of the English language, spoken and written, from Old and Middle English to modern colloquial usage and experimental fiction. The course emphasizes practical philological linguistics, structural analysis and the application of language skills to prose and verse from 950 C.E. to current writing. Weekly lecture or language workshop and seminar. *S. L. Keefer*

English 231 – The American renaissance

Studies in the literature of the pre-Civil War United States. Attention will focus on the work of Poe, Emerson, Thoreau, Hawthorne, Melville, Whitman and Dickinson. Weekly lecture and seminar. (Offered this year and in alternate years.) *Staff*

English 232 – American literature: The gilded age

A study of American literature from the Civil War to World War I and the relation between historical change and culture in the period. Writers to be studied include Twain, James, Howells, Crane, Du Bois, Chopin, Cather, Dreiser, Wharton and Adams. Weekly lecture and seminar. (Offered in alternate years but not this year.)

English 250H/WI – Renaissance drama

This course focuses on Renaissance drama (exclusive of Shakespeare) within the changing social contexts in Elizabethan and Jacobean England. Playwrights will include Marlowe, Jonson, Webster and several of their contemporaries. Plays will be studied both as literary texts and as theatrical events. Excludes *English 215*. Weekly lecture and seminar. *Staff*

English 251H – Restoration and eighteenth-century drama

This course examines the rich dramatic tradition which arose in London following the reopening of the theatres in 1660. Emphasis will be placed on comedy and satire, but other genres may be examined as well. Authors to be studied include Wycherley, Congreve, Dryden, Behn, Goldsmith and Sheridan. Excludes *English 215*. Weekly lecture and seminar. (Offered in alternate years but not this year.)

English 253H/FA – The age of Elizabeth

This course focuses on the flowering of literature in the Renaissance in England from the defeat of the Spanish Armada to the death of Queen Elizabeth. Authors to be studied include Sidney, Spenser, Marlowe, Nashe, Shakespeare and Jonson. Weekly lecture and seminar. (Offered this year and in alternate years.) *Z. Pollock*

English 254H – Metaphysicals and Cavaliers

This course explores English literature from the accession of James I to the Restoration. The focus will be on the poetry of Donne and the Metaphysicals (Herbert, Vaughan, Crashaw, Traherne and Marvell) and of Jonson and the Cavaliers (Herrick, Lovelace, and Suckling). Some attention will be paid to drama and prose as well. (Offered in alternate years but not this year.)

English – Canadian Studies 265 – English Canadian prose

A study of principal Canadian writers of English prose from the 19th century to the present day, including some of Atwood, Callaghan, Davies, Duncan, Findley, Glassco, Haliburton, King, Kogawa, Kroetsch, Laurence, Leacock, MacLeod, MacLennan, Mistry, Mitchell, Moodie, Ondaatje, Richler, Ross, Watson, Wilson and Wiseman. Weekly two-hour lecture and seminar. *O. S. Mitchell and staff*

English – Canadian Studies – Women's Studies 266H – Canadian women's writing, 1945–1980 (see Canadian Studies)**English – Canadian Studies – Women's Studies 267H – Canadian women's writing, 1980–present** (see Canadian Studies)**English 300 – Literature of Augustan England**

Studies in the literature of the Augustan period, 1660–1740. Writers to be studied include Addison and Steele, Behn, Congreve, Defoe, Etherege, Fielding, Gay, Lady Mary Wortley Montagu and Wycherley, with particular emphasis on Dryden, Pope and Swift. Weekly lecture and seminar. (Offered in alternate years but not this year.)

English 302H/FA – The age of sensibility

Studies in the literature of "sensibility" which dominates the latter half of the 18th century, focussing on debates about character and national character and about moral and aesthetic taste, as expressed in a wide range of literary genres. Writers may include Johnson, Boswell, Rousseau, Goldsmith, Sterne, Sheridan, Burney and Edmund Burke. Weekly lecture and seminar. (Offered this year and in alternate years.) *L. J. Clark*

English – Women's Studies 310 – Gender and literature

A study of relations between gender and genre in works of women. Works have been selected from different genres, periods and places in the English-speaking world. However, the emphasis will be on modern and contemporary works. Weekly lecture and seminar. *S. J. Bailey*

English 316H – The fiction of India

A study of the prose fiction in English of India. Writers to be studied include Rudyard Kipling, George Orwell, Mulk Raj Anand, Raja Rao, R. K. Narayan, Ruth Praver Jhabvala, Salman Rushdie and Anita Desai. Excludes *English 315*. Weekly lecture and seminar. (Offered in alternate years but not this year.)

English 317H – West Indian and African fiction

A study of prose fiction in English of the West Indies and Africa. Writers to be studied include Jean Rhys, George Lamming, V. S. Naipaul, Chinua Achebe, Wole Soyinka, Ngugi wa Thiong'o and J. M. Coetzee. Excludes *English 315*. Weekly lecture and seminar. (Offered in alternate years but not this year.)

English 320 – The age of Dickens

A study of Victorian literature and society. Writers to be studied include Dickens, George Eliot, Elizabeth Barrett, Trollope, Gissing, James and Wilde. Weekly lecture and seminar. (Offered in alternate years but not this year.)

English – Cultural Studies 321 – Literature and society

Studies in the creation of modern society as seen by Victorians in their poetry, prose, and fiction. Writers to be studied include Mill, Carlyle, Marx, William Morris, Tennyson, Browning, the Pre-Raphaelites, Christina Rossetti, Emily Brontë, Mrs. Gaskell, Charles Dickens, and Thomas Hardy. Weekly lecture and seminar. (Offered this year and in alternate years.) *R. Dellamora*

English 325 – Critical approaches to literature

This course will examine some of the major critical approaches to literature and interpretation in the 20th century: Formalism, Structuralism and Semiotics, Reader-Response Criticism, New Historicism, Psychoanalytic Criticism, Deconstruction and Feminism. Weekly lecture and seminar; several workshops. *M. C. Eddy*

English – Cultural Studies 329 – Utopia (future fiction) (see Cultural Studies)**English 331H/WI – Chaucer's Canterbury Tales**

This course focuses on character development in the *Canterbury Tales*. The General Prologue and selected tales and headlinks will be read, in Middle English, in order to study the presentation of the Pilgrim-narrators, as well as their relationships with their tales and with one another. Weekly lecture and seminar. (Offered this year and in alternate years.) J. Findon

English 332 – Medieval romance

The Arthurian romance tradition, from its Briton/Breton origins, focusing on the martial and erotic faces of chivalry through an exploration of chivalric loyalty, male friendship and courtly love. Works in the original language include a selection of Middle English romances, *Sir Gawain and the Green Knight* and the anonymous *Stanzaic Morte Arthur*. (Offered in alternate years but not this year.)

English 333H – Medieval drama

A close examination of the origins of English drama from the liturgy of the early Christian church to the secular comedy of the early sixteenth century. Liturgical Latin plays will be read in translation; the medieval Cycle and morality plays will be in Middle English. Weekly lecture and seminar. (Offered in alternate years but not this year.)

English 340 – Modern poetry

An introduction to the works of some of the important poets writing in English in the 20th century. Writers to be studied include Yeats, Eliot, Pound, Williams, Stevens, Frost, Thomas, Auden and Lowell. Weekly lecture and seminar. (Offered in alternate years but not this year.)

English 345 – Modern British fiction

A study of the major developments in British fiction in the 20th century, focusing on thematic, technical and stylistic innovation as a response to unprecedented social change. Writers include Conrad, Ford, Joyce, Lawrence, Woolf, Forster, Waugh, Greene, Rhys, Naipaul and Angela Carter. Fortnightly two-hour seminar. (Offered this year and in alternate years.) G. D. Eathorne

English 350 – Modern drama

Studies in the works of twentieth-century English, Irish and American playwrights. Writers to be studied include Shaw, Wilde, Osborne, Pinter, Stoppard, Beckett, Churchill, Caryl Phillips, Williams, Miller and Albee. Weekly lecture and seminar. (Offered this year and in alternate years.) L. W. Conolly

English – Canadian Studies 352H – Literary landscapes of Montreal (see Canadian Studies)**English – Canadian Studies 353H/WI – English-Canadian drama**

This course traces the development of English-Canadian drama from Confederation to the present, focusing on post-Centennial drama and on the plays' theatrical contexts. Authors to be studied include Ryga, French, Reaney, Pollock, Walker, Thompson and Highway. Weekly lecture and seminar. (Offered this year and in alternate years.) Staff

English – Cultural Studies 355 – Sexuality and textuality (see Cultural Studies)**English – Canadian Studies – Native Studies 360H/FA – Native fiction**

The course considers the expectations and functions of narrative, and examines the ways in which the fictions of Native authors draw on, extend and defy white European literary traditions, and incorporate narrative methods of their own traditions. Fictions by authors in both Canada and the United States will be included. Weekly lecture and seminar. (Offered this year and in alternate years.) G. Johnston

English – Canadian Studies – Native Studies 361H/WI – Native poetry

The course considers the range of contemporary poetry by Native authors from Canada and the United States, and the poems' relations to traditional language forms and to literary traditions and genres. It begins with a brief study of "orature" and songs, and includes a discussion of one 19th-century exemplar. Weekly lecture and seminar. (Offered this year and in alternate years.) G. Johnston

English – Canadian Studies 365H – English-Canadian poetry

An introduction to various aspects of Canadian poetry written in English, through the work of representative writers such as Lampman, D.C. Scott, Klein, Birney, Purdy, Cohen, Atwood and Ondaatje. Weekly lecture and seminar. (Offered in alternate years but not this year.)

English 370 – Studies in the novel

A study of the development of the English novel, stressing both its thematic and technical aspects. Writers to be studied will include some of Defoe, Richardson, Fielding, Sterne, Austen, Scott, Emily Brontë, Dickens, Eliot, Hardy, James, Conrad, Lawrence and Woolf. Weekly lecture and seminar. (Offered in alternate years but not this year.)

English 371 – Modern American fiction

A study of American fiction from 1920 to the present. Writers to be studied include Hemingway, Fitzgerald, Faulkner, West, Bellow, Doctorow, Hurston, Morrison, McCarthy, Silko, Irving and Stegner. Weekly lecture and seminar. (Offered this year and in alternate years.) *M. C. Eddy*

English 375 – An introduction to creative writing

A workshop course offering students a formal structure within which to pursue their interest in creative writing. Students will submit exercises in various poetic forms and rough drafts of their own poems weekly. Students seeking admission will submit a portfolio of poetry to the instructor by May 1 and will be notified if they have been accepted into the course by May 31. Weekly three-hour workshop. *G. Johnston*

English 385 – Children's literature

This course focuses on contemporary children's culture, emphasizing how the literature examines the transition between oral and literate culture and exploring its sources in the 18th-century popular press and the 19th-century cult of the child. Authors studied include Baum, Carroll, Potter, Barrie, Montgomery, White, Milne, Seuss, Sendak, Munsch, Blume, Wynne-Jones and Johnston. *J. Findon*

English 402 – Honours thesis

A double-credit course, for which double fee is charged, in which instruction in research methods leads to a thesis of about 15,000 words. The department deadline for a thesis abstract and bibliography (signed by the thesis supervisor) is May 1 of the student's third year. See Honours brochure or website (www.trentu.ca/english) for details.

English 420 – Advanced studies in Shakespeare

Topic for 2004-2005: Shakespeare and genre. Studies Shakespeare's restless experimentation with dramatic genres, and especially his testing of the limits they impose. The emphasis will be on the complexities created by the joinings of comedy and tragedy. Prerequisite: *English 220* or permission of the instructor. Two-hour seminar weekly. *F. B. Tromly and Z. Pollock*

English – Cultural Studies 425 – Literary theory and critical theory (see Cultural Studies)**English 431 – Studies in Old English language and literature**

Topic for 2004-2005: The Exeter Book: The course will concentrate on four aspects of the earliest collection of English poetry (975 C.E.): the verse itself, the manuscript which contains it, the inter-relationships formed by context, and the act of compilation. Palaeography and codicology of a manuscript facsimile form part of the course study. Prerequisite: a grade of at least 65% in at least one of *Latin 100*, *Greek 100*, *German 100* or *English 230*, or permission of instructor. Two-hour seminar weekly. *S. L. Keefer*

English 432 – Advanced studies in Medieval English (Not offered this year.)**English 433 – Advanced studies in Renaissance literature** (Not offered this year.)**English 434 – Advanced studies in Restoration and 18th century literature**

* Topic for 2004-2005: Studies in the 18th century novel. This course will examine the 18th century novel and its origins within a wide range of genres (memoirs, letters, travel literature, the picaresque, novels of sentiment), with special attention to 18th century moral and political theory. Writers will include Defoe, Behn, Smollett, Sterne, Richardson, Fielding, Johnson, Rousseau, Burney, Walpole and Austen. Two-hour seminar weekly. *L. J. Clark*

English 435 – Advanced studies in the Romantics

Topic for 2004-2005: William Blake's "composite art." Blake was both an artist and a poet. The course will explore the relationship between text and design in Blake's major illuminated works, from *Songs of Innocence* to *Jerusalem*. Attention will be given to aesthetic debates in Romantic poetry and the visual arts in which Blake engaged – particularly with Reynolds and Wordsworth. Two-hour seminar weekly. *O. Mitchell*

English 436 – Advanced studies in Victorian literature

Topic for 2004-2005: Victorian autobiography and representations of the life course in poetry, fiction, and life-writing. Writers studied include Charlotte Brontë, Robert Browning, Elizabeth Barrett Browning, Carlyle, Dickens, Emily Dickinson, J.S. Mill, Harriet Martineau, Margaret Oliphant, Christina Rossetti, Tennyson, and Wordsworth. Two-hour seminar weekly. *S.J. Bailey*

English 440 – Advanced studies in modern poetry (Not offered this year.)**English 450 – Advanced studies in modern drama**

Topic for 2004-2005: Preparing a critical edition. This research-intensive seminar deals with the methodology and process of preparing a critical edition of a modern dramatic text. Students will prepare four components of a critical edition: Introduction, Annotated Text, Select Bibliography and primary Contextual Materials (literary, social, political, biographical). Plays will be selected from British, American and Canadian playwrights. Two-hour seminar weekly. *L. W. Conolly*

English 460 – Advanced studies in modern fiction

Topic for 2004-2005. Bloomsbury. The course will focus on the works of many of the members of the Bloomsbury Group. It will explore the fiction of Virginia Woolf and E. M. Forster and the biographies of Lytton Strachey with their extensive use of fictional techniques. Three-hour seminar fortnightly. *G. D. Eathorne*

English – Canadian Studies 465 – Advanced studies in Canadian literature

Topic for 2004-2005: Modernism and Beyond: The careers of A. M. Klein and P. K. Page. A. M. Klein and P. K. Page were among the leading Canadian modernists, but in their later work they struggled to transcend what they came to see as the limitations of modernism, especially its emphasis on the aesthetic and the impersonal. The course will examine their careers in light of this struggle. Prerequisite: *English – Canadian Studies 265 or 266H or 365H* or permission of instructor. Two-hour seminar weekly. *Z. Pollock*

English – Canadian Studies 466 – Representations of the Other in contemporary Canadian writing (see Canadian Studies)**English 4701 – Advanced studies in genre**

Topic for 2004-2005: Modernism and the Great War. The course focuses on some memoirs, novels and poetry that come out of the Great War. We will pay particular attention to the gap between what the conscious mind registers and what the imagination renders. Writers to be studied include Remarque, Graves, Wells, Lawrence, Woolf and Rebecca West. Two-hour seminar weekly. *D. K. Glassco*

English 4702 – Advanced studies in genre

Topic for 2004-2005: Oral traditions/postcolonial texts. The course explores West Indian literature with an emphasis on the oral traditions that inform it. Texts will include fiction (Selvon, Brodber, Naipaul), poetry (Walcott, Goodison, Brathwaite) and aural texts including dub poetry by Linton Kwesi Johnson, reggae by Bob Marley, and calypsos by Lord Kitchener and Mighty Sparrow. Two-hour seminar weekly. *H. M. Hodges*

English 475 – Advanced studies in American literature

Topic for 2004-2005: Contemporary African-American Women Writers. Toni Morrison's reception of the Nobel Prize for literature in 1993 is part of a larger renaissance spurred on since 1970 by the writing of contemporary African-American women. This course will explore works by Morrison, Walker, Kincaid, Dove, Angelou, Naylor, Lorde, Clifton, Bambara, Shange and others. Two-hour seminar weekly. *M. C. Eddy*

English 490 – Reading course

The course allows the student to select, with the approval of the department, an area for research study which is then pursued under the direction of a member of the department. Students wishing to take *English 490* must secure the agreement of a faculty member to supervise the course and must apply for permission to take *English 490* through the Honours Advisor, prior to the commencement of the Fall session. See Honours brochure or website (www.trentu.ca/english) for details.

English – Cultural Studies 4953 – Special topic: The subject of the text (see Cultural Studies)

Environmental & Resource Science/Studies

Telephone: (705) 748-1011 ext. 1261
Fax: (705) 748-1569

E-mail: ers@trentu.ca
Web: www.trentu.ca/ers

Associate Professor and Chair of the Program

T. Whillans, B.A. (Guelph), M.Sc., Ph.D. (Toronto)

Professor and NSERC Industrial Chair

P. Dillon, B.Sc., M.Sc. Ph.D. (Toronto)

Associate Professor and NSERC Industrial Junior Chair

H. Hintelmann, B.Sc., Ph.D. (Hamburg)

Professors

R. D. Evans, B.Sc. (Toronto), Ph.D. (McGill); **W. F. J. Evans**, M.A., Ph.D. (Saskatchewan), F.R.S.C. (on leave Winter session); **M. G. Fox**, B.Sc. (Pennsylvania), M.E.Des. (Calgary), Ph.D. (Queen's); **C. D. Metcalfe**, B.Sc. (Manitoba), M.Sc. (New Brunswick), Ph.D. (McMaster) (on leave 2004-2005); **R. C. Paehlke**, B.A. (Lehigh), M.A. (New School for Social Research), Ph.D. (British Columbia) (on leave 2004-2005); **D. Torgerson**, B.A. (California-Berkeley), M.E.S. (York), M.A., Ph.D. (Toronto)

Associate Professors

S. Bocking, B.Sc., M.A., Ph.D. (Toronto); **J. Clapp**, B.A. (Michigan), M.Sc., Ph.D. (London); **M. Havas**, B.Sc., Ph.D. (Toronto)

Assistant Professors

D. G. Holdsworth, B.Sc. (Waterloo), M.Sc. (McMaster), Ph.D. (Western Ontario); **R. Ponce-Hernandez**, B.Eng., M.Sc. (Chapingo), D.Phil. (Oxford); **L. Simpson**, B.Sc. (Guelph), M.Sc. (Mount Allison), Ph.D. (Manitoba); **D. Wallschläger**, Ph.D. (Bremen)

Professors Emeriti

T. C. Hutchinson, B.Sc. (Manchester), Ph.D. (Sheffield), F.R.S.C.; **D. Mackay**, B.Sc., Ph.D. (Glasgow); **M. L. Rubinoff**, B.A. (Queen's), M.A., Ph.D. (Toronto)

Demonstrator/Technicians

D. E. Howard, B.Sc. (McGill), M.Sc. (Trent); **R. K. Loney**, B.Sc. (Toronto)

Associated Faculty

Biology: **E. Nol**, **D. Lasenby** (on leave Fall session), **J. Schaefer**. *Canadian Studies*: **J. Wadland**. *Chemistry*: **J. M. Parnis** (on leave 2004-2005), **I. Svishchev**. *Economics*: **B. Cater**. *Geography*: **J. M. Buttle**, **P. M. Lafleur**, **S. Wurtele**

The Environmental & Resource Science/Studies program is an interdisciplinary program offering both a B.A. in Environmental & Resource Studies and a B.Sc. in Environmental & Resource Science. Students may earn a single-major degree or a joint-major degree with any of more than 20 other University departments or programs. The program offers a high degree of flexibility in course selection, including options for a year abroad, community research placements, research/training internships within and outside of the University, and participation in Emphases and Specializations in Conservation Biology; Ecological Management; Environmental Politics, Policy and Law; Environmental Toxicology; Food & Agriculture; Geographical Information Systems; Health Sciences; Indigenous Environmental Studies; Law & Policy; and Northern & Polar Studies.

Notes

- Students who have taken Grade 12 Environmental Science in Ontario or the equivalent elsewhere may opt to write a test during introductory week, on which a grade of at least C- (60%) will exempt them from taking *Environmental & Resource Science 100*. This will not, however, alter the minimum number of credits in Environmental & Resource Science/Studies required for the degree.
- Enrolment limits will apply to some courses. Please refer to the Academic Timetable for information about Early Registration procedures.
- Science courses, which fulfill University requirements for the B.Sc., are designated *Environmental & Resource Science*; arts courses are designated *Environmental & Resource Studies*.

- Any course involving work with live vertebrate animals requires the Animal Care Course which is described on p. 24 of the calendar. The Animal Care Course requirement is indicated in some course descriptions but may also apply to others. Check with the department secretary or course instructor if in doubt.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in Environmental & Resource Science or Environmental & Resource Studies, if they have met the requirements for the joint-major General degree (see below).
- For the most complete and up-to-date information on the Environmental & Resource Science/Studies program – courses, faculty, procedures, policies, special events, etc. – check the program website at www.trentu.ca/ers.

BACHELOR OF ARTS AND BACHELOR OF SCIENCE PROGRAMS IN ENVIRONMENTAL & RESOURCE SCIENCE/STUDIES

- For the Diploma and Specialization in Indigenous Environmental Studies, see p. 107.
- For the Emphasis in Geographical Information Systems, see p. 222.
- For the Emphasis in Food & Agriculture, see p. 212.
- For the Specialization in Environmental Politics, Policy & Law, see p. 107.
- For the Specialization in Ecological Management, see p. 107.
- For the Specialization in Environmental Toxicology, see p. 107.
- *Environmental & Resource Science/Studies 401 and 402D*, the single and double credit thesis courses, are open to students with a minimum average of 75% in Environmental & Resource Science/Studies courses. Application for thesis courses is made during Early Registration. Applicants must make arrangements with a suitable program supervisor.

BACHELOR OF ARTS PROGRAM IN ENVIRONMENTAL & RESOURCE STUDIES

- see p. 22 for requirements which apply to all undergraduate degree programs.
- For the purpose of meeting the requirement for science credits, 200-level mathematics and science courses designated for Teacher Education (e.g., *Physics – Science 209* and *Mathematics – Science 280*) are considered the equivalent to 100-level courses.

The Honours program. At least 10 credits in Environmental & Resource Science/Studies for the single-major degree or 7 for the joint-major degree. The program must include:

- *Environmental & Resource Science 100* and *Environmental & Resource Studies – Canadian Studies 250*. (For students taking *Environmental & Resource Studies 257H* instead of *Environmental & Resource Studies 250*, an additional upper year Environmental & Resource Studies 0.5 credit must be taken.)
- for the single-major degree, 8 additional credits in Environmental & Resource Science/Studies including at least 5 beyond the 200-level
- for the joint-major degree, 5 additional credits in Environmental & Resource Science/Studies including at least 3 beyond the 200-level
- 1 science credit beyond the 100-level or 2 credits from the following: *Biology 102H, 103H, 261H, 262H, Chemistry 100, Computer Science 102H, 104H, 151H, Economics 101H, 102H, Mathematics – Science 280, Physics – Science 209, Environmental & Resource Science – Biology 270, Geography 102H, 104H, Physics 100* or any Mathematics courses at the 100-level.

The General program. At least 6 credits in Environmental & Resource Science/Studies for the single-major degree or 5 for the joint-major degree. The program must include:

- *Environmental & Resource Science 100* and *Environmental & Resource Studies – Canadian Studies 250*
- for the single-major degree, 4 additional credits in *Environmental & Resource Science/Studies* including at least 3 beyond the 200 level
- for the joint-major degree, 3 additional credits in *Environmental & Resource Science/Studies* including at least 2 beyond the 200 level
- 1 science credit beyond the 100-level or 2 credits from the following: *Biology 102H, 103H, 261H, 262H, Chemistry 100, Computer Science 102H, 104H, 151H, Economics 101H, 102H, Mathematics – Science 280, Physics – Science 209, Environmental & Resource Science – Biology 270, Geography 102H, 104H, Physics 100* or any Mathematics course at the 100 level

BACHELOR OF SCIENCE PROGRAM IN ENVIRONMENTAL & RESOURCE SCIENCE

- see p. 22 for requirements which apply to all undergraduate degree programs.
- *Environmental & Resource Science – Biology 240* may be substituted for *Environmental & Resource Science 221H* or *220* at the University Centre at Durham.

The Honours program. At least 10 credits in *Environmental & Resource Science/Studies* for the single-major degree or 7 for the joint-major degree. The program must include:

- *Environmental & Resource Science 100*, and *221H* or *220*
- 1 credit from *Environmental & Resource Science – Biology 202* or both *216H* and *217H*, *Environmental & Resource Science – Geography – Biology 208H*, *Environmental & Resource Science – Geography 209H*, *Environmental & Resource Studies – Politics 210H* or *Environmental & Resource Science 230H*. (For students taking *Environmental & Resource Science – Biology 240* instead of *Environmental & Resource Science 221H* or *220*, only 0.5 credit is required from this list)
- 1 credit in *Environmental & Resource Studies*
- for the single-major degree, 6.5 additional credits in *Environmental & Resource Science/Studies*, including at least 5 beyond the 200-level
- for the joint-major degree, 3.5 additional credits in *Environmental & Resource Science/Studies*, including at least 3 beyond the 200-level
- *Chemistry 100*
- 1 credit in Mathematics
- 14 science credits in the program as a whole

The General program. At least 6 credits in *Environmental & Resource Science/Studies* for the single-major degree or 5 for the joint-major degree. The program must include:

- *Environmental & Resource Science 100*, and *221H* or *220*
- 1 credit from *Environmental & Resource Science – Biology 202* or both *216H* and *217H*, *Environmental & Resource Science – Geography 209H*, *Environmental & Resource Studies – Politics 210H* or *Environmental & Resource Science 230H*. (For students taking *Environmental & Resource Science – Biology 240* instead of *Environmental & Resource Science 221H* or *220*, only 0.5 credit is required from this list.)
- 1 credit in *Environmental & Resource Studies*
- for the single-major degree, 2.5 additional credits in *Environmental & Resource Science/Studies* beyond the 200-level
- for the joint-major degree, 1.5 additional credits in *Environmental & Resource Science/Studies* beyond the 200-level
- *Chemistry 100*
- 1 credit in Mathematics
- 11 science credits in the program as a whole

DIPLOMA AND SPECIALIZATION IN INDIGENOUS ENVIRONMENTAL STUDIES

The Indigenous Environmental Studies program provides an interdisciplinary and creative approach to environmental issues affecting Aboriginal communities. It is offered jointly by Environmental & Resource Science/Studies and Native Studies as an Emphasis in either program or as a Diploma. For further information see Indigenous Environmental Studies (p. 139).

SPECIALIZATIONS IN ENVIRONMENTAL & RESOURCE SCIENCE/STUDIES

Environmental & Resource Science/Studies Honours students have the option of pursuing one or more Specializations, which are intended to provide additional focus in individual programs. Each consists of the courses indicated below and on the program website. The transcripts of students graduating with a degree in Environmental & Resource Science/Studies, who have successfully completed the requirements of the Specialization, will contain the notation "with a Specialization in [appropriate Specialization]." These formal specializations are not to be confused with the more informal themes listed outside the program office and on the program website and intended to help students in planning their courses of study within the program.

Specialization in Environmental Politics, Policy & Law (B.A.)

- *Environmental & Resource Studies – Canadian Studies 250, Environmental & Resource Studies – Canadian Studies – Politics 310, Environmental & Resource Studies 325H, 425H*
- 2 additional credits from the following list: *Environmental & Resource Studies – Politics 210H, Environmental & Resource Studies – Geography 251H, Environmental & Resource Studies 307H, 309H, 311H, 316H, Environmental & Resource Studies – International Development – Politics 360, Environmental & Resource Studies – Politics – Canadian Studies 460H, Environmental & Resource Studies – International Development – Politics 461H, and Environmental & Resource Studies – Canadian Studies 467H or Environmental & Resource Science/Studies 401 on an approved subject.*

Specialization in Ecological Management (B.Sc.)

- *Environmental & Resource Science – Biology 202 or both 216H and 217H, Environmental & Resource Science 351H, Environmental & Resource Science – Biology 424H, Environmental & Resource Science 452H*
- 1.5 additional credits from the following list: *Environmental & Resource Studies – Canadian Studies 250, Environmental & Resource Studies 311H, Environmental & Resource Science 320, 335H, 336H, Environmental & Resource Science – Geography 365H, Environmental & Resource Science – Biology 439H, and Environmental & Resource Science – Geography 464H, 467H or Environmental & Resource Science/Studies 401 on an approved subject.*

Specialization in Environmental Toxicology (B.Sc.)

- *Environmental & Resource Science – Biology 202 or both 216H and 217H, Environmental & Resource Science 221H or 220 or Environmental & Resource Science – Biology 240, Environmental & Resource Science 370, Environmental & Resource Science – Biology – Geography 407H*
- 2 credits from the following list: *Environmental & Resource Science – Biology – Geography 208H, Environmental & Resource Science 313H, 314H, Environmental & Resource Science – Chemistry 342H, 343H, Environmental & Resource Science 345H, 355, 412H, Environmental & Resource Science – Geography 445H, Environmental & Resource Science 452H, 467H or Environmental & Resource Science/Studies 401 on an approved subject.*

Please consult the academic timetable to determine which of the courses listed will be offered in 2004-2005.

Environmental & Resource Science 100 – Introduction to environmental science/studies

An interdisciplinary exploration of how humans use, affect, and protect our world, emphasizing the scientific, political and economic dimensions of environmental issues. These dimensions are examined through a series of case studies including: the Trent University environment, urban environments, endangered species, drinking water quality, and the environmental implications of globalization. *Staff*

Environmental & Resource Studies – Canadian Studies – Geography 203H – Urban environments (see Geography)

Environmental & Resource Studies – Canadian Studies – Geography – Native Studies 204 – Canada: The land (see Canadian Studies)

Environmental & Resource Science – Geography – Biology 208H – Natural science statistics (see Geography)

Environmental & Resource Science – Geography 209H – Introduction to geographical information systems (see Geography)

Environmental & Resource Studies – Politics 210H/WI – Environmental science and politics
This course is about the roles of science in current environmental controversies. Topics examine science and environmental ethics, the application of science to natural resource management, the contribution of science to action on international environmental problems such as climate change and the role of science in making decisions about environmental risks. Prerequisite: *Environmental & Resource Science 100*. S. Bocking and staff

Environmental & Resource Science – Native Studies 215H – Environmental assessment techniques for Aboriginal communities (see Native Studies)

Environmental & Resource Science – Biology 216H – Population ecology (see Biology)

Environmental & Resource Science – Biology – 217H – Community ecology (see Biology)

Environmental & Resource Science 220/FW – Methods for evaluating environmental impacts

An interdisciplinary course which will familiarize students with a wide range of laboratory and field methods directly applicable to the study of environmental problems. Prerequisite: *Chemistry 100*. Excludes *Environmental & Resource Science 221H*. D. Wallschläger and staff

Environmental & Resource Science 230H/FA – Energy science and technology

A discussion of the scientific principles of energy and thermodynamics, and the current and future prospects for energy production, conversion, storage and transmission. Prerequisite: *Physics 100* or one full 100-level Chemistry credit. Staff

Environmental & Resource Science – Biology 240 – Environmental microbiology

The first section lays the foundations of microbiology with an overview of essential biological chemistry, ecosystem science, cell biology, microscopy and cultivation techniques. Application is to bioremediation and site reclamation. Prerequisite: *Environmental & Resource Science 100* or OAC Biology. (Offered only in Oshawa. Interested students should consult the Part-time Studies brochure.)

Environmental & Resource Science – Chemistry 241 – Environmental chemistry (see Chemistry)

Environmental & Resource Studies – Canadian Studies 250 – Canadian natural resource theory and management

This course considers theories of renewable and non-renewable resource management, and examines these practices with respect to specific Canadian resources. Prerequisite: *Environmental & Resource Science 100*. D. Holdsworth, M. Fox and staff

Environmental & Resource Studies – Geography 251H – Methods in human geography and environmental studies (see Geography)

Environmental & Resource Studies 257H – Canadian renewable resource management

This course considers theories of renewable and non-renewable resource management, and examines these practices with respect to specific Canadian resources. Prerequisite: *Environmental & Resource Science 100*. Excludes *Environmental & Resource Studies 250*. (Offered only in Oshawa. Interested students should consult the Part-time Studies brochure).

Environmental & Resource Studies – Native Studies 260 – Introduction to Indigenous Environmental Studies (see Native Studies)

Environmental & Resource Science – Biology 270 – Environmental science for teacher education

A course in environmental science for prospective elementary school teachers (mainly the primary and intermediate grades), focusing on the use of scientific concepts related to air and water pollution, global warming, energy conservation, waste management, natural resource management and environmental stewardship in the curriculum. Emphasis is placed on developing teaching modules at an appropriate grade level. Laboratory and field component. Prerequisite: five university credits. Normally open only to students who are in the Concurrent or Consecutive Education programs or who are pursuing the Emphasis in Teacher Education. *M. Fox*

Environmental & Resource Science – Geography 301H/WI – Fundamentals of vector Geographical Information Systems

This course focuses on Geographical Information Systems and analysis in the vector data domain (discrete object representation). It examines the fundamentals of spatial database development and the main analytical operations in vector. Practical application through laboratory exercises with examples from the urban and rural environment is a major component of the course. Prerequisite: *Environmental & Resource Science – Geography – Biology 208H* and *Environmental & Resource Science – Geography 209H*. *R. Ponce*

Environmental & Resource Science – Biology 303H – Research design and data analysis (see Biology)**Environmental & Resource Science/Studies 307H/FA – Environmental risk assessment: Issues and techniques**

This course explores the theory and practice of both industrial and environmental risk assessment. Social issues and analytical techniques are considered as they arise within the environmental policy process, with special attention to standards-setting and decision-making. The course may be taken as a science credit by successfully undertaking an appropriate technical project. Prerequisite: one 200-level Environmental & Resource Studies/Science full or half-course credit and 10 university credits. *D. Holdsworth*

Environmental & Resource Studies 308 – Waste management

This course examines current and leading edge methods and systems for waste management and for diversion of used resources from disposal. Related social, economic, health, political and ecological matters are considered within a policy and planning framework. Prerequisite: *Environmental & Resource Studies – Canadian Studies 250*. *Staff*

Environmental & Resource Studies 309H/WI – The environmental professional

This course calls upon sociology, and organization/decision theory to reflect critically on the work of environmental practitioners, emphasizing the roles of managers, scientists, and consultants. Canadian initiatives to regulate environmental practice are examined. The course is an opportunity for students to think critically about their own careers as environmental practitioners. Prerequisite: *Environmental & Resource Science 100* and 10 university credits. *D. Holdsworth*

Environmental & Resource Studies – Canadian Studies – Politics 310 – Public policy and the Canadian environment

A comparative study of Canadian environmental policy and the history of the Canadian environmental movement with an emphasis on policies relating to environmental health, energy and materials use, biodiversity, waste management and land use. Prerequisite: one 200-level Environmental & Resource Studies, Canadian Studies, Political Studies or Business Administration credit. *Staff*

Environmental & Resource Studies 311H/WI – Environmental impact assessment: A case study approach

Environmental impact assessment brings together scientific, economic, social and political perspectives in an attempt to anticipate and manage environmental impacts. This course examines different approaches to environmental assessment, contrasting federal with provincial and social with biophysical. Prerequisite: One 200-level Environmental & Resource Science/Studies credit and 10 university credits. *Staff*

Environmental & Resource Science 313H – Introduction to nuclear science

This course will provide students with an understanding of the nuclear power industry and the ability to assess health and environmental risks associated with this activity. Basic concepts of radiation measurement, dosimetry, and sources and levels of environmental radiation and associated health effects will be discussed. Prerequisite: 10 university credits including at least one laboratory-based science credit.

Environmental & Resource Science 314H – Tracer techniques in the environment

This course will present practical approaches to tracing environmental processes and pathways. It examines techniques for the use of various radioactive and stable isotopic tracers. Instruction in the use of these tracers will be included and practical applications of relevance to current environmental issues will be discussed. Prerequisite: 10 university credits including at least one laboratory-based science credit. *Environmental & Resource Science 313H* is recommended.

Environmental & Resource Studies – Canadian Studies – Women's Studies 315 – Women, health and environment (see Women's Studies)**Environmental & Resource Science 316H/WI – Community-based natural resource management**

The course examines critically and constructively community-based experiences in the management of natural resources. It explores the topic of self-regulation by resource interest groups, drawing on cases from fisheries, forestry, wildlife and integrated sectors. Traditional and developmental approaches are contrasted. Prerequisite: one 200-level credit in Environmental & Resource Science/Studies. *Staff*

Environmental & Resource Science 320 – Management of forest ecosystems

This course offers an appreciation of the problems in managing forest ecosystems. It looks at the ecological processes which create and maintain forests and at how foresters attempt to manage them, and the environmental consequences of forestry practices. It then examines case studies, drawn from Ontario and other parts of the world. Prerequisite: *Environmental & Resource Science – Biology 202* or both *216H* and *217H* or *Environmental & Resource Science 221H* or *220*. *Staff*

Environmental & Resource Studies 325H/FA – Introduction to environmental law

Students will be provided with a comprehensive overview of environmental law in Canada. In particular, the course will examine the key environmental laws and policies at the provincial, federal and international level. Prerequisite: 10 university credits including *Environmental & Resource Science 100*. *Staff*

Environmental & Resource Studies – Philosophy 330 – Environmental ethics

A critical examination of ethical issues in environmental theory and practice. Some topics/themes to be covered: the land ethic, the ethics of scarcity, images and concepts of nature, the domination of nature, social benefit and technological risk, the debate among deep ecologists, social ecologists and ecofeminists, sociobiology and environmental cosmology. Prerequisite: one 200-level Environmental & Resource Studies or Philosophy credit. *D. Holdsworth*

Environmental & Resource Studies – Canadian Studies – Geography 333H – Wilderness resources (see Geography)**Environmental & Resource Science 335H/FA – Ecological agriculture**

An exploration of the history and scientific basis of agriculture in southern Ontario, and the ecological underpinnings of farming. Nutrient cycling, crop rotation, integrated pest management and tillage practices are discussed. Traditional, conventional and intense systems are considered in the context of sustainability. Farm visits are included. Prerequisite: *Environmental & Resource Science – Biology 202* or both *216H* and *217H* or *Environmental & Resource Science 221H* or *220*. Students who have successfully completed *Environmental & Resource Studies – Canadian Studies 250*, may enter the course but must be prepared to do additional background reading. *Staff*

Environmental & Resource Science 336H/WI – Agriculture and agricultural alternatives

The course focuses on the origins and domestication of crops and livestock, and on the increasingly narrow genetic resources available to modern production systems. Conventional, intensive and industrial farming systems will be considered, as well as alternatives such as organic farming, permaculture, and use of perennial crops. Farm visits are included. Prerequisite: *Environmental & Resource Science 335H* or *Environmental & Resource Science – Biology 202* or both *216H* and *217H* or *Environmental & Resource Science 221H* or *220*. Students who have successfully completed *Environmental & Resource Studies – Canadian Studies 250*, may enter the course but must be prepared to do additional background reading. *Staff*

Environmental & Resource Science – Chemistry 342H – Instrumental analysis I (see Chemistry)**Environmental & Resource Science – Chemistry 343H – Instrumental analysis II** (see Chemistry)

Environmental & Resource Science 345H/FA – Air pollution chemistry

The sources, distribution and impacts of atmospheric pollutants are examined. The course addresses alternative scientific approaches in investigating atmospheric pollution and modeling systemic responses. Emphasis will be on questions other than climatic change such as tropospheric ozone and acid rain. Prerequisite: *Chemistry 100*. W. F. J. Evans

Environmental & Resource Science – Science 350 – Environment and communication

This course is designed to help students develop their written, oral and visual communication skills and to bridge the gap between environmental experts and the general public. Evaluation is based on posters or other forms of visual communication, oral presentations, and documents written for specific audiences. Creativity and design are stressed throughout. Prerequisite: 10 university credits, three of which are in the sciences. M. Havas and staff

Environmental & Resource Science 351H/FA – Ecology and management of wetland systems

This course involves intensive first-hand study of one type of ecosystem in natural and culturally degraded states. Wetlands occur at the interface of both terrestrial and aquatic ecosystems. Wetland management, thus requires understanding of ecological processes and management practices common to most of Canada. Prerequisite: *Environmental & Resource Science – Biology 202* or both *216H* and *217H* or *Environmental & Resource Science 221H* or *220* or *Environmental & Resource Studies – Canadian Studies 250*. T. Whillans

Environmental & Resource Science 355 – Pollution ecology

The ecological and human health effects of environmental contaminants are examined as they relate to water, air and soil pollution. Emphasis is on science but social issues are also addressed. Knowledge of biology and chemistry useful. Prerequisite: *Environmental & Resource Science 221H* or *220* or *Environmental & Resource Science – Biology 202* or both *216* and *217H*. M. Havas and staff

Environmental & Resource Science – Geography 356H – Pedology (see Geography)**Environmental & Resource Science 357H – Pollution ecology of aquatic ecosystems**

This course will familiarize students with ecological and human health effects of selected environmental pollution problems; particularly those related to chemical contaminants and physical changes to water. Prerequisite: *Environmental & Resource Science 221H* or *220* or *Environmental & Resource Science – Biology 202* or both *216H* and *217H*. Excludes *Environmental & Resource Studies 355*. (Offered only in Oshawa. Interested students should consult the Part-time Studies brochure.)

Environmental & Resource Science 358H – Pollution ecology in terrestrial ecosystems

This course will familiarize students with ecological and human health effects of selected environmental pollution problems; particularly those related to chemical contaminants and physical changes to terrestrial ecosystems. Prerequisite: *Environmental & Resource Science 221H* or *220* or *Environmental & Resource Science – Biology 202* or both *216H* and *217H* or *240*. May be taken concurrently with *Environmental & Resource Science – Biology 202* or both *216H* and *217H* or an equivalent ecology course with permission of instructor. Excludes *Environmental & Resource Studies 355*. (Offered only in Oshawa. Interested students should consult the Part-time Studies brochure.)

Environmental & Resource Studies – International Development – Politics 360 – Environment and development

The integration of environment and development in theory and practice. The course contrasts internationally expressed intentions on "environmentally sustainable development" with the realities in developing countries. Prerequisite: *International Development 200* or *Environmental & Resource Studies – Canadian Studies 250* or *Politics 220*. S. Bocking and staff

Environmental & Resource Studies – Native Studies 363 – Issues in Indigenous Environmental Studies (see Native Studies)**Environmental & Resource Science – Geography 365H/FA – Soil management and conservation**

Soils represent one of the most important natural resources from the point of view of sustainable agriculture and forestry, and protection of habitat. This course explores the scientific basis and management options for conservation of soil resources. Prerequisite: *Environmental & Resource Science 221H* or *220* or *Geography 250* (or *254H* and *256H*) or *Geography 240*. *Environmental & Resource Science – Geography 356H* is recommended.

Environmental & Resource Science 366 – Biological Effects of Electromagnetic Fields (BEEF)

This course deals with the biological effects of electromagnetic fields ranging in frequency from static to radio frequency radiation generated by technology (technofields), by the earth and sun (geofields) and by other living organisms (biofields). Students conduct major research in an area of their choice. Prerequisite: *Environmental & Resource Science 100* and 10 university credits. First year Physics is recommended. *M. Havas*

Environmental & Resource Science 370 – Environmental toxicology

This course introduces students to the chemical, physical and toxicological properties of organic and inorganic toxicants in aquatic and terrestrial environments. Prerequisite: *Biology 102H* and *103H* and either *Environmental & Resource Science 221H* or *220* or the equivalent of one 200-level Chemistry course. *Biology 206H* and *207H* are recommended.

Environmental & Resource Science 375H – Introduction to environmental toxicology

This course introduces students to the fundamentals of environmental toxicology and the chemical, physical and toxicological properties of chemicals in aquatic and terrestrial environments. Topics include: factors influencing contaminant bioaccumulation, metabolism, mechanisms of toxicity and an introduction to chemical risk analysis. Prerequisite: *Biology 102H*, *103H*, *Environmental & Resource Science – Geography – Biology 208H*, and *Environmental & Resource Science 221H* or *220* or the equivalent of one 200-level Chemistry course. *Biology 206H* and *207H* are recommended. Excludes *Environmental & Resource Science 370*. (Offered only in Oshawa. Interested students should consult the Part-time Studies brochure).

Environmental & Resource Studies – Economics – Canadian Studies 378H – Canadian renewable resource economics

This course is designed to introduce students to the economic theory of renewable resources in a Canadian context. It focuses on analyzing renewable resources in a Canadian political, social, cultural and regulatory framework and is designed to be accessible to students from a variety of disciplines with minimal exposure to economic theory. Prerequisite: the equivalent of one full 200-level Environmental & Resource Studies or Canadian Studies credit and *Economics 101H*, *102H* or permission of instructor.

Environmental & Resource Studies – Economics 381H – Environmental economics (see Economics)**Environmental & Resource Science/Studies 383, 384H – Community-based research project**

Students are placed in research projects with community organizations in the Peterborough area. Each placement is supervised jointly by a faculty member and a representative of a community organization. For details see "Community-Based Education Program" (p. 206).

Environmental & Resource Science/Studies 385, 386H, 387H, 388H – Field course

Spring and Summer courses are offered through the Ontario Universities program in Field Biology.

Environmental & Resource Science/Studies 390, 391H, 392H, 393H – Reading course

This is a research course on a specific topic. The course is only open to majors or joint majors with two – credits (or better) in Environmental & Resource Science/Studies courses. Written permission must be obtained from the appropriate instructor and the chair of the program before early registration.

Environmental & Resource Science/Studies 401/402D – Thesis

This is a major research project combining one credit for Environmental & Resource Science/Studies and one for the other discipline in a joint major, or counting as two credits for Environmental & Resource Science/Studies. Prerequisite: permission of the chair of the program and a minimum average in Environmental & Resource Science/Studies credit courses of 75%. Acceptance in the thesis course is dependent upon the candidate having made arrangements with a suitable supervisor in the program. All students are required to attend a regularly scheduled workshop and orally present their research proposal and final report. Co-ordinator: *D. Holdsworth*

Environmental & Resource Science – Geography 404H – Hydrochemical fluxes in the hydrosphere (see Geography)**Environmental & Resource Science – Biology – Geography 406H/FA – The geochemistry of natural waters**

This course will examine the chemistry of freshwater systems. Chemical and physical processes that lead to changes in water quality will be discussed. The emphasis will be on the concentrations and distributions of contaminants. Topics include watershed contributions of chemicals, acidification and the carbonate system, weathering, redox chemistry, trace metals and synthetic organic contaminants. Prerequisite: two Chemistry credits. *Biology 305* or *Geography 353H* are recommended as co or prerequisite. *D. Evans*

Environmental & Resource Science – Biology – Geography 407H/WI – The fate of contaminants in the aquatic environment

This course will discuss approaches to predicting the fate of contaminants in aquatic systems. Basic assumptions and algorithms of fate models for toxic metals and organic xenobiotics will be examined and students will get hands-on experience in applying recent models to case-studies. Prerequisite: *Environmental & Resource Science – Geography – Biology 406H*. *D. Wallschläger and staff*

Environmental & Resource Science – Biology 412H/WI – Environmental carcinogenesis

This course introduces students to the epidemiological, toxicological and molecular basis of carcinogenesis in humans, with an emphasis on environmental carcinogenesis. Prerequisite: *Biology 102H, 103H* and *Environmental & Resource Science 221H* or *220*. *Biology 206H, 207H* and *Environmental & Resource Science – Biology – Geography 208H* are highly recommended.

Environmental & Resource Science – Biology 424H/WI – Fisheries assessment and management

Principles and practices of fisheries assessment and management, including an examination of management problems in freshwater and marine fisheries from an ecological, socio-economic and policy perspective. Topics include stock assessment techniques, stocking and fertilization, management of warmwater and coldwater species, and local management initiatives. Prerequisite: *Environmental & Resource Science – Biology 202* or both *216H* and *217H* or *Environmental & Resource Science 221H* or *220*. A course in aquatic science (*Environmental & Resource Science 351H, Biology 305* [or *306H*] or *Biology 314H*) is recommended. Students who have successfully completed *Environmental & Resource Studies – Canadian Studies 250* may take the course, but must be prepared to do additional background reading. *M. Fox*

Environmental & Resource Studies 425H/WI – Environmental law and regulation

This course is intended to provide students with a practical and detailed examination of the enactment, enforcement and limitations of environmental law and policy. The course will emphasize Ontario's environmental regime and will focus on a recent case study. Prerequisite: minimum of 10 university credits. *Environmental & Resource Studies 325H* (Introduction to environmental law) is recommended. *Staff*

Environmental & Resource Science 435H/WI – Climatic change

This course will examine the meteorological principles, measurements and models that are the basis of current understanding of climatic change. It addresses in particular, the biological impacts of climatic changes and the ways in which these biological changes might affect human resources and the process of climatic change itself. Prerequisite: *Environmental & Resource Science 100* or *Geography 102H* or *104H* or *Physics 100* or *Biology 102H* and *103H*; 10 university credits. *Staff*

Environmental & Resource Science – Biology 439H – Conservation biology (see Biology)**Environmental & Resource Science – Chemistry 442H – Advanced analytical chemistry** (see Chemistry)**Environmental & Resource Science – Geography 445H – Spatial modeling and geographical information systems** (see Geography)

Environmental & Resource Science 452H – Restoration ecology

This course is about the science of restoring and rehabilitating ecosystems. Principles, applications and practical case studies are covered. No regular field or laboratory work is scheduled but some required field site visits are planned. Prerequisite: *Environmental & Resource Science – Biology 202* or both *216H* and *217H* or *Environmental & Resource Studies – Canadian Studies 250*. Staff

Environmental & Resource Studies – Politics – Canadian Studies 460H/FA – Public policy in global perspective

This course focuses on economic, health and social policies in the context of global politics while giving special attention to the linkages of these policy areas to environmental issues. Case studies and projects involving primary research are emphasized. Staff

Environmental & Resource Studies – International Development – Politics 461H/WI – Global environmental policy

The course focuses on perspectives, actors, institutions and economic relationships as they relate to global environmental policy. The aim is to provide students with a solid understanding of linkages between the global political system and the natural environment. Recommended: one of *Environmental & Resource Studies – International Development – Politics 360*, *Environmental & Resource Studies – Canadian Studies – Politics 460H* or *Politics 220*. J. Clapp

Environmental & Resource Science – Geography 464H/WI – Watershed management in developing countries

Integrated Ecosystems Management is the focus of this course. It deals, first, with the methodological and practical aspects of watershed assessment, planning, decision-making and management. Then, it examines comparatively the management of watersheds in the developing world, introducing students to strategies for planning and managing watersheds through case studies. Prerequisite: *Environmental & Resource Science – Biology 202* or both *216H* and *217H*, *Geography 250* (or *254H* and *256H*) or *Environmental & Resource Studies – Canadian Studies 250*, plus one 300-level credit in *Environmental & Resource Science/Studies* or *Geography*. R. Ponce

Environmental & Resource Studies – Canadian Studies 467H/FA – Environmental history

This course examines how our ideas about the environment, and our use of the environment, have changed over time. Specific topics include evolving ideas about natural resources and wilderness, changing perspectives on the urban environment, and the interaction between science and environmental politics during the last century. Prerequisite: 10 university credits. S. Bocking

Environmental & Resource Studies 475 – Group problem solving

This course focuses on group decision-making, problem recognition and problem resolution with respect to environmental issues. Concepts to be explored include communication, co-operation, shared vision, negotiation and group bias. Prerequisite: 10 university credits including *Environmental & Resource Science 100*.

Environmental & Resource Studies 480 – Greening the campus

This course examines how institutions manage their impacts on the environment, with a special focus on Trent University. Students will learn the theory and practice of institutions, examining how environmental decisions are made. They will also complete a substantial research project on some aspect of the campus environment. Prerequisite: 10 university credits including *Environmental & Resource Science 100*. S. Bocking

Environmental & Resource Science/Studies 483, 484H – Community-based research project

Students are placed in research projects with community organizations in the Peterborough area. Each placement is supervised jointly by a faculty member and a representative of a community organization. For details see "Community-Based Education Program" (p. 206).

Environmental & Resource Science/Studies 485, 486H, 487H, 488H – Field course

Spring and Summer courses are offered through the Ontario Universities program in Field Biology.

Environmental & Resource Science/Studies 490, 491H, 492H, 493H – Reading course

This is a research course on a specific topic. The course is only open to majors or joint majors in the program with a B average (or better) in *Environmental & Resource Science/Studies* courses. Written permission must be obtained from the appropriate instructor and chair of the program before Early Registration.

Environmental Chemistry

Program Co-ordinators

Chair of the Chemistry Department

To be named

Chair of the Environmental & Resource Science/Studies Program

T. Whillans, B.A. (Guelph), M.Sc., Ph.D. (Toronto).

Professors

See listings of faculty in Chemistry and Environmental & Resource Science/Studies.

Solving many environmental problems requires a solid background in both chemistry and environmental science. The Environmental Chemistry program has been designed to provide a thorough grounding in fundamental chemical principles as well as a detailed understanding of environmental issues and their scientific context. Graduates of the program will have experience with advanced instrumentation and modern analytical techniques, and will be prepared to handle challenging environmental problems from a multidisciplinary perspective.

Note

- There is no minor in Environmental Chemistry.

BACHELOR OF SCIENCE PROGRAM IN ENVIRONMENTAL CHEMISTRY

- see p. 22 for requirements which apply to all undergraduate degree programs.
- The Environmental Chemistry program is a sequence of courses offered by the Chemistry department and the Environmental Resource Science/Studies program that compose an integrated whole. It is not available as a joint-major degree.
- *Environmental & Resource Science 314H, 355 and 435H* are recommended for both the Honours and the General program
- Students wishing to transfer to a single-major program in Chemistry or Environmental Resource Science should consult the chair of the appropriate department/program before beginning third year.
- For information on individual courses see calendar entries for Chemistry and for Environmental Resource Science/Studies.

The single-major Honours program. At least 11.5 credits in Chemistry and Environmental & Resource Science. The program must include:

- *Chemistry 100, 200, 240H and Chemistry – Environmental & Resource Science 241, 342H, 343H*
- *Chemistry 212* (for organic chemistry) or both *Chemistry 321H and Chemistry 323H* (for inorganic chemistry)
- *Chemistry 408H or Chemistry – Environmental & Resource Science 442H*
- *Environmental & Resource Science 100, 345H, 370, 406H and 407H*
- 2 additional credits in Chemistry or Environmental & Resource Science beyond the 200-level
- *Biology 102H and 103H*
- 1 credit in *Mathematics 110* or in *Mathematics 105H* and another 0.5 credit in Mathematics

The single-major General program. At least 8.5 credits (inorganic chemistry) or 9 credits (organic chemistry). The program must include:

- *Chemistry 100, 200, 240H and Chemistry – Environmental & Resource Science 241*
- *Chemistry 212* (for organic chemistry) or one of *321H or 323H* (for inorganic chemistry)
- *Chemistry – Environmental & Resource Science 342H or 343H*
- *Environmental & Resource Science 100, 345H and 370*
- 1.5 additional credits in Environmental & Resource Science
- *Biology 102H and 103H*
- 1 credit in *Mathematics 110* or in *Mathematics 105H* and another 0.5 credit in Mathematics

Forensic Science

Telephone: (705) 748-1011 ext. 5285

E-mail: forensicscience@trentu.ca

Web: www.trentu.ca/forensicscience

Chair of the Program

To be named

Acting Coordinator

P. Lapp, B.A. (Queen's), B.Sc. (Trent), M.A., Ph.D. (Queen's)

Professors

See listing of faculty in Anthropology, Biology, and Chemistry.

The Forensic Science program at Trent University is a direct entry degree program with a limited number of student places. The program is offered in collaboration with Fleming College and leads to a Bachelor of Science degree in Forensic Science. All courses are delivered entirely at Trent University.

The forensic scientist is first and foremost a scientist, and must appreciate and be committed to the rigour of the scientific method. Students will achieve a solid grounding in the foundational science of forensics – the theories, laboratory skills, and field techniques of anthropology, biology, and chemistry – and understand its specific application to forensics. The degree particularly emphasizes DNA forensic applications through courses in DNA laboratory techniques and genetics, and DNA-related case-work.

In addition, the forensic courses in the degree will provide students with an opportunity to integrate science with issues, techniques and skills specific to the practice of forensics. These skills include casework, teamwork, understanding legal issues related to evidence, and translating complex scientific evidence for a lay audience, whether in reports or the delivery of evidence in court. The partnership with Fleming College and the collaboration with its Centre for Law and Justice ensures the uniqueness and the strength of this aspect of the education of Forensic Science graduates.

As the Forensic Science students move from the case-based introductory course in first-year to independent study or research in their final year, they will find the curriculum consistently integrates the study of science, law and investigative skills.

Admission Requirements

This is a direct entry program with a limited number of student places. A high school diploma and six Ontario Academic Courses or six grade 13 credits or six Ontario U/UC credits, including one OAC or 12 U credit in each of Chemistry, Biology, English and Mathematics are required for admission. Normally students with an overall average lower than 75% will not be admitted to the program.

Application Procedure

Applications for this program are to be submitted to:

Ontario Universities' Application Centre

Application code: RU

Program name: Forensic Science

BACHELOR OF SCIENCE IN FORENSIC SCIENCE

- see p. 22 for requirements which apply to all undergraduate degree programs.
- There is no General degree in Forensic Science.
- For information on individual courses see calendar entries for Anthropology, Biology and Chemistry.
- A maximum of three D grades (50-59%) can be counted toward the degree. These cannot be in Forensic Science courses.
- Students must successfully complete all required courses in a given year before proceeding to the next year of the program.
- There is no minor in Forensic Science.

The single-major Honours program.**Year 1**

Students will be introduced to the basic concepts of forensics through a case-based course integrating use of scientific evidence, critical argument and reporting media. Biology and chemistry courses provide a base for subsequent work. Issues related to justice and society are introduced with a forensic context.

- *Forensic Science 101, Fleming College Law & Justice – Introduction to Canadian Justice*
- *Biology 103H, Biology 105, Chemistry 100, Mathematics 150*

Year 2

Forensic techniques and legal procedures are presented in detail for the first time. The students shift from general science courses to science courses more directly related to forensic analyses and begin study in anthropology to prepare for course-work in the next two years. A mentorship program follows from the first-year study of justice and society.

- *Forensic Science 201H, Fleming College Law & Justice – Criminal Code, Fleming College Law & Justice – Police Powers*
- *Anthropology 100, Biology 205H, 206H, Biology – Chemistry 231H*
- 1 additional science credit

Year 3

The forensic case-based education of first-year and the detailed treatment of technical and legal issues in second-year are now followed by a crime scene investigation course that synthesizes and re-integrates the two approaches and introduces new forensic techniques. Students build on the technical and theoretical competencies developed in forensic-related biology and chemistry and are now prepared for a course devoted solely to forensic DNA.

- *Forensic Science 300H, 301H, Fleming College Law & Justice – Trends in Forensic Techniques, Fleming College Law & Justice – Criminology*
- *Anthropology 240, Biology 362H, Chemistry 240H*
- 1 additional science credit

Year 4

The final year of the program provides an opportunity to become a researcher and practitioner through independent study, placement or thesis research.

- *Forensic Science 401, 402D, Fleming College Law & Justice – Presentation of Forensic Evidence*
- *Anthropology 341, Biology 460H, Chemistry-Environmental Resource Science 342H, 343H*
- 1 additional science credit

Please consult the academic timetable to determine which of the course listed will be offered in 2004-2005.

Forensic Science 101 – Case studies in scientific law and ethical practices

A course designed to introduce students to the interdisciplinary nature of forensic science and to the professional cultures – government, police/legal and industry – that intersect in the practice of forensics. Students will gather scientific evidence, assemble it in light of legal practice, and present it as reports and in the “courtroom.” Open only to students registered in the Forensic Science program.

Forensic Science 201H/WI – Mentorship/placement

Students gain first-hand experience of the practice of forensic science in one its three dimensions – science, policing, or law – and will apply the theories and concepts acquired in their first three terms. Students will arrange for their placement with the support of the Forensic Science program and complete a journal. Open only to students registered in the Forensic Science program.

Forensic Science 300H/WI – Laboratory DNA forensics

This course will examine the theoretical foundations and techniques of DNA analysis with leading-edge technology in light of forensic cases. The course will be composed of a one-hour lecture, a three-hour laboratory section and a one-hour tutorial/troubleshooting session per week. Students know the theory and practice of generating forensic DNA evidence. Open only to students registered in the Forensic Science program.

Forensic Science 401 – Independent project

Study under the supervision of a faculty member that involves self-directed research and may include a placement. Students will also attend fourth-year Forensic Science seminars on research-related issues. Students must contact the course coordinator before the end of the Winter session. Open only to students registered in the Forensic Science program.

Forensic Science 402D – Research thesis

Students will design and carry out research under the supervision of a faculty member, and attend fourth-year Forensic Science seminars on research-related issues. Permission of the program and the availability of a thesis supervisor are required. Students must contact the program before the end of the Winter session of third year. Open only to students registered in the Forensic Science program.

The following courses offered by Fleming College are each worth 0.5 credit. Under the current Articulation Agreement these courses may be counted towards the degree program, and will be identified as transfer credits.

Fleming College Law & Justice – Introduction to Canadian justice

This course will introduce students to current issues in criminal justice, and will emphasize the study of civil and administrative laws, and the processes and systems that structure the enforcement of these laws. Particular attention will be given to investigative and evidentiary responsibilities.

Fleming College Law & Justice – Criminal Code

The course provides a systematic and detailed review of the Criminal Code. It will focus on implications of the Criminal Code for forensic science, current issues in its interpretation by the courts, and its implementation by law enforcement agencies

Fleming College Law & Justice – Trends in forensic science

This course will cover recent developments in forensic science and will reflect the recommendations of practitioners. It will typically include updates in the theory and practices related to DNA analysis, blood-spatter analysis, tire-track and footwear impressions, ballistics and so forth.

Fleming College Law & Justice – Police powers

Police Powers will focus on the legislation governing criminal investigations – including the Constitution Act and Charter of Rights and Freedoms – the practical application of those laws and their judicial interpretation in the day-to-day activities of police officers and other law enforcement personnel.

Fleming College Law & Justice – Criminology

This course will provide the student with a comprehensive view and appreciation of criminology, including the scientific study of criminal behaviour, its forms, causes, legal implications and controls. It will provide a forum for discussion and debate and will enhance their knowledge of crime, criminal justice and society.

Fleming College Law & Justice – Presentation of forensic evidence

The course explores the legal functions and processes of courts and tribunals and the laws governing evidence and testimony by witnesses. Communication theory and techniques will be applied to the experience of testifying in a courtroom setting and to understanding the impact of ethical and effective testimony.

French Studies

See Modern Languages

Geography

Telephone: (705) 748-1011 ext. 1440
Fax: (705) 748-1205

E-mail: geography@trentu.ca
Web: www.trentu.ca/geography

Professor and Chair of the Department

J. M. Buttle, B.A. (Toronto), Ph.D. (Southampton)

Professors

A. G. Brunger, B.Sc. (Southampton), M.Sc. (Alberta), Ph.D. (Western Ontario) (*on leave Winter session*); **J. G. Cogley**, M.A. (Oxford), M.Sc., Ph.D. (McMaster); **P. M. Lafleur**, B.Sc. (Brandon), M.Sc. (Trent), Ph.D. (McMaster); **C. L. McKenna Neuman**, B.Sc. (Queen's), M.Sc. (Guelph), Ph.D. (Queen's); **G. A. Nader** (*on leave 2004-2005*), B.A. (London), Ph.D. (Durham); **C. H. Taylor**, M.A. (Canterbury), Ph.D. (McGill)

Associate Professor

S. E. Wurtele, B.Sc. (Trent), Ph.D. (Queen's)

Assistant Professors

A.L. Bain, B.A. (Queen's), M.A. (Toronto), Ph.D. (Cambridge); **R. Ponce-Hernandez**, B.Eng., M.Sc. (Chapingo), D.Phil. (Oxford); **W.S. Tufts**, B.A. (McGill), M.A. (Queen's), Ph.D. (York)

Professors Emeriti

W. P. Adams, B.A. (Sheffield), M.Sc., Ph.D. (McGill); **F. M. Helleiner**, M.A., Ph.D. (Western Ontario); **J. S. Marsh**, B.A. (Reading), M.Sc. (Alberta), Ph.D. (Calgary)

Technicians/Demonstrators

M. A. Ecclestone, B.Sc. (Trent), M.Sc. (Guelph); **S. Gardiner**, **H. T. Thompson**, B.A. (York)

Conjunct Professor

K. Beesley, B.E.S., Ph.D. (Waterloo)

The Geography department has a strong emphasis on field-based learning and interdisciplinary study. Many courses are cross-listed with other departments and programs, including an Emphasis in Northern & Polar Studies and one in Geographical Information Systems linked with Fleming College. Students in the Honours program are encouraged to explore the thesis option as a valuable training for post-graduate studies and job-related experience.

Notes

- *Geography 103H* and one of *102H*, *104H* or *105H* are prerequisites for most upper level Geography courses. Students should check individual course descriptions for prerequisites.
- It is possible to take certain courses at the 300-level immediately after *Geography 103H* and one of *102H*, *104H* or *105H* and certain courses at the 400-level immediately after *Geography 208H* and *Geography 211H* or *251H*.
- Most courses at the 300-level are offered in alternate years.
- Courses in Geography fulfilling University science course requirements for the B.Sc. are marked (Sc) in the individual course descriptions.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in Geography, if they have met the requirements for the joint-major General degree (see below).

BACHELOR OF ARTS AND BACHELOR OF SCIENCE PROGRAMS IN GEOGRAPHY

- see p. 22 for requirements which apply to all undergraduate degree programs.
- The Geography department offers both a B.A. and a B.Sc. degree.
- Student in the joint-major program who have successfully completed *Psychology 215* are exempt from the *Geography 208H* requirement.
- It is recommended that students with an interest in Applied Geography incorporate the Geographic Information Systems joint Diploma program with Fleming College (Fleming-GIS) into their Honours program (consult the Joint Programs section of the calendar). For students in the Fleming-GIS program, the category requirements in the single-major B.A. and B.Sc. are different, but the total number of Geography credits required for the degrees is the same.

BACHELOR OF ARTS PROGRAM

- The B.A. program in Geography includes courses chosen from the following categories, as indicated in the requirements below.
- Approved reading (390, 391H, 392H, 393H) or special topics (395, 396H, 397H, 398H) courses may be taken for the category C requirement.

A	B	C	D
231H	303H	322H 371H	402D
263H	357H	332H 373H	470
271H	411H	333H 376H	
		337H 380H	
		363H 464H	

- For the single-major and joint-major General B.A. programs, *Geography 386H* and one course from category B are highly recommended.

The single-major Honours program. At least 10 credits in Geography, including:

- *Geography 103H* and one of *1Q2H* or *104H* or *105H*
- *Geography 208H* and *251H*
- 1 credit from category A
- 1 credit from category B (0.5 for Fleming-GIS)
- 2 credits from category C (1.5 for Fleming-GIS)
- 4 additional credits, including at least 1 from category D (5 for Fleming-GIS)

The joint-major Honours program. At least 7 credits in Geography, including:

- *Geography 103H* and one of *102H* or *104H* or *105H*
- *Geography 208H* and *251H*
- 1 credit from category A
- 0.5 credit from category B
- 1 credit from category C
- 2.5 additional credits, including at least 1 from category D or *Geography 401*

The single-major General program. At least 6 credits in Geography, including:

- *Geography 103H* and one of *102H* or *104H* or *105H*
- *Geography 208H* and *251H*
- 1 credit from category A
- 1 credit from category C
- 2 additional credits

The joint-major General program. At least 5 credits in Geography, including:

- *Geography 103H* and one of *102H* or *104H* or *105H*
- *Geography 208H* and *251H*
- 1 credit from category A
- 1 credit from category C
- 1 additional credit

BACHELOR OF SCIENCE PROGRAM

- see p. 22 for requirements which apply to all undergraduate degree programs.
- The B.Sc. program in Geography includes courses chosen from the following categories, as indicated in the requirements below.
- Approved reading courses (390, 391H, 392H, 393H) or special topics courses (395, 396H, 397H, 398H) may be taken for the category C requirement.

A	B	C	D
240	303H	341H 356H	402D
244H	357H	342H 365H	440
246H	411H	351H 404H	
254H		353H 406H	
256H		354H 407H	
		355H 445H	
		464H	

- For the single-major and joint-major General B.Sc. programs, *Geography 386H* and one course from category B are highly recommended.

The single-major Honours program. At least 10 credits in Geography. The program must include:

- *Geography 103H* and one of *102H* or *104H*
- *Geography 208H* and *211H*
- 1 credit from category A
- 1 credit from category B (0.5 for Fleming-GIS)
- 2 credits from category C (1.5 for Fleming-GIS)
- 1 credit from category D
- 3 additional credits in Geography (4 for Fleming-GIS)
- 1 credit in Mathematics
- 14 science credits in the program as a whole

The joint-major Honours program. At least 7 credits in Geography. The program must include:

- *Geography 103H* and one of *102H* or *104H*
- *Geography 208H* and *211H*
- 1 credit from category A
- 0.5 credit from category B
- 1 credit from category C
- 1 credit from category D or *Geography 401*
- 1.5 additional credits in Geography
- 1 credit in Mathematics
- 14 science credits in the program as a whole

The single-major General program. At least 6 credits in Geography. The program must include:

- *Geography 103H* and one of *102H* or *104H*
- *Geography 208H* and *211H*
- 1 credit from category A
- 1 credit from category C
- 2 additional credits in Geography
- 1 credit in Mathematics
- 11 science credits in the program as a whole

The joint-major General program. At least 5 credits in Geography. The program must include:

- *Geography 103H* and one of *102H* or *104H*
- *Geography 208H* and *211H*
- 1 credit from category A
- 1 credit from category C
- 1 additional credit in Geography
- 1 credit in Mathematics
- 11 science credits in the program as a whole

Please consult the academic timetable to determine which of the courses listed will be offered in 2004-2005

Geography 103H/ FA – Human geographies in global context

This course examines the spatial organization of human activity, the significance of places in human life and people's relationships with their environments. It includes study of people, their origins, culture, technology, economy and impact on the environment. Lectures, laboratory work and local field work. *S. Wurtele*

Geography 104H/ WI – Earth's physical processes and environments (Sc)

An examination of the atmospheric, tectonic and geomorphic forces that shape Earth's physical environments. Issues addressed include soil conservation, groundwater resources and climate change. Prerequisite for all science courses in geography. Excludes *Geography 102H* and *105H*. Two one-hour lectures weekly, three-hour laboratories fortnightly, local fieldwork. *C. McKenna Neuman*

Geography 105H/ WI – Introduction to Earth's physical environments

Course facilitates recognition of the atmospheric, tectonic and geomorphic forces that shape landscape, climate, water and soil resources, and thereby, social and economic activity. This course is not to serve as a prerequisite for any further science courses in geography, except *Geography 208H*, *209H*, *303H*, *364H*, *386H* and *401/402D*. Excludes *Geography 102H* and *104H*. Two one-hour lectures weekly, one-hour workshop, periodically. *C. McKenna Neuman*

Geography – Canadian Studies – Environmental & Resource Studies 203H/WI – Urban environments

Cities are often portrayed as the antithesis of wilderness. This course explores and challenges traditional conceptualizations and representations of Canadian cities. Using the natural environment as a central focus, emphasis is on the spatial dimensions of aesthetics and design, governance, resources, issues of sustainability and the differential power of diverse groups within cities. Open to upper-year students only. Lecture and seminar weekly. *S. Wurtele*

Geography – Canadian Studies – Environmental & Resource Studies – Native Studies 204 – Canada: The land (see Canadian Studies)**Geography – Environmental & Resource Science – Biology 208/ WI – Natural science statistics (Sc)**

The course covers commonly-used statistical tools in Biology, Geography and Environmental & Resource Science. Lectures will address basic statistical methods and background theory. Laboratories involve computer-based assignments providing practical experience in statistical application. Prerequisite: *Geography 103H* and one of *102H*, *104H* or *105H* or *Environmental & Resource Science 100* or *Biology 102H* and *103H*. *Mathematics – Statistics 150* and 100-level computing experience are recommended. Three one-hour lectures and one two-hour laboratory weekly. *P. Lafleur*

Geography – Environmental & Resource Science 209H/ FA – Introduction to Geographical Information Systems (Sc)

This is an introductory course to the fundamentals of GIS technology and applications. The essentials of GIS structural components, spatial data models and the analytical GIS operations on such data models are examined in detail. Experience with GIS analysis is gained through laboratory exercises. Prerequisite: *Geography 103H* and one of *102H*, *104H* or *105H* or *Environmental & Resource Science 100* or *Biology 102H* and *103H*. Elementary or intermediate-level experience with microcomputers and their operating systems is desirable. Two one-hour lectures weekly and three-hour laboratory work fortnightly. *R. Ponce*

Geography 211H/FA – Methods for physical geographers (Sc)

This course trains students in a variety of data acquisition, processing and analytical techniques specific to the earth sciences. These techniques include terrestrial survey, remote sensing and air photo interpretation. Fundamentals of instrument design, calibration and installation are introduced. Exercises require use of spreadsheet and graphic presentation software. Prerequisite: Minimum of 60% in *Geography 103H* and one of *102H* or *104H* or *Environmental & Resource Science 100*. One-hour lecture and three-hour lab weekly. Field work. *C. McKenna Neuman*

Geography – Anthropology – Classical Civilization 223H – The ancient city (see Ancient History & Classics)**Geography 231H/FA – Recreation geography methods**

Examines methods for determining the historical geography of recreation, the demand for recreation, the supply of land, facilities and services for recreation, and the economic, environmental and social impacts of tourism. Prerequisite: *Geography 103H* and one of *102H*, *104H* or *105H*. Two-hour lecture weekly and seminar fortnightly. *Staff*

Geography 240 – Geology (Sc)

Principles of mineralogy, petrology and sedimentology, paleontology and structural geology; geophysics of the Earth's interior and recent developments in geomagnetism, seismology and global tectonics. Open to students in second year and above and to first-year students with permission of instructor. *G. Cogley*

Geography 244H/FA – Microclimatology (Sc)

This course focuses on the physical mechanisms of flows of energy and mass between the earth surface and the atmosphere. A discussion of the principles of energy exchange is followed by their application to near surface environments. Lectures concentrate on problems in hydrology, biology, agriculture and urban systems. Prerequisite: *Geography 102H or 104H or Environmental & Resource Science 100*. Two-hour lecture weekly and two-hour laboratory fortnightly. *P. Lafleur*

Geography 246H/WI – The global climate system (Sc)

A study of the physical elements of the global climate system. This course deals with global and synoptic climatic processes including the structure of the atmosphere, radiation, atmospheric dynamics, general circulation and the oceans. These concepts are applied to an introduction to the problem of climatic change and its prediction. Prerequisite: *Geography 102H or 104H or Environmental & Resource Science 100*. Two-hour lecture weekly and two-hour laboratory fortnightly. *P. Lafleur*

Geography – Environmental & Resource Studies 251H/WI – Methods in human geography and environmental studies

This course will focus on methods used in both professional and academic contexts. Methods examined in the course include surveys, content analysis, depth interviews, ethnography, focus groups and action research. Emphasis will be on application of the methods to environmental problem-solving and environmental research contexts, particularly at the local/regional level. Prerequisite: *Environmental & Resource Science 100* or minimum of 60% in *Geography 103H* and one of *102H, 104H or 105H*. Two-hour lecture and two-hour seminar weekly. *S. Tufts*

Geography 254H/WI – Process geomorphology (Sc)

This course addresses a selection of sedimentary processes that create a variety of features observed at the surface of the earth. Emphasis is placed upon understanding and quantifying sediment production and transport. This knowledge is then extended to the interpretation of arid, coastal and fluvial landforms. Prerequisite: *Geography 102H or 104H or Environmental & Resource Science 100*. Two-hour lecture weekly and two-hour laboratory fortnightly. *C. McKenna Neuman*

Geography 256H/FA – Large-scale geomorphology (Sc)

An examination of large landforms including continents, oceans, plates, hotspot swells, plateaus and island arcs, and of the processes in the Earth's interior which generate them. The course also examines weathering processes, and the evolution of landscapes and slopes. Lab work emphasizes the principles that link geomorphic processes to landforms. Prerequisite: *Geography 102H or 104H or Environmental & Resource Science 100*. Two-hour lecture weekly and two-hour laboratory fortnightly. *G. Cogley*

Geography – Canadian Studies 263H/FA – Historical geography

Geography of North America before 1800, emphasizing early Canada. Themes pursued include exploration, environmental perception, resource exploitation, colonial settlement, urbanization and regional development. Particular attention is paid to the geography of the northern imperial possessions of France and England in what is now Canada. Prerequisite: *Geography 103H* and one of *102H, 104H or 105H*. Two-hour lecture and one-hour tutorial weekly, field trip. *A. Brunger*

Geography – Canadian Studies 271H/FA – Urban systems

The nature of urban geography; the historical development of urban systems, emphasizing Canada; the location, size, function and spacing of cities at national and regional levels. Prerequisite: *Geography 103H* and one of *102H, 104H or 105H or Economics 101H and 102H or Sociology 100*. Two-hour lecture weekly and one-hour tutorial weekly. *A. Bain and S. Tufts*

Geography – Environmental & Resource Science 301H – Fundamentals of vector GIS (Sc)

(see Environmental & Resource Science/Studies)

Geography 303H/ WI – Statistical applications in geography (Sc)

A survey of some of the more important statistical techniques used in geography with particular emphasis on computer-based analysis. Computer packages such as SPSS and SAS will be used in the application of these techniques to geographical data. Prerequisite: *Geography 208H* or *Mathematics – Statistics 150*. Two-hour lecture weekly and occasional three-hour laboratory. *Staff*

Geography – Women's Studies – Canadian Studies 322H/WI – Gender, society and space

Selected themes and topics examining the relationship between gender and spatial organization. Themes to be examined include the nature of domestic space, gendered use of public, private and urban space, and the intersections between gender, sexuality, racism and cultural difference. Prerequisite: *Geography 103H* and one of *102H*, *104H* or *105H* or *Women's Studies 100* or permission of instructor. Lecture and seminar weekly. *S. Wurtele*

Geography – Canadian Studies 332H/FA – Settlement geography

Process and forms of modern settlement in Canada and "New Frontier" lands such as Australia, Siberia, Brazil and Israel/Palestine. Discusses themes of emigration and immigration; frontier, group and ethnic settlement within both metropolitan and non-metropolitan settings. Prerequisite: *Geography 263H*. Two-hour lecture and one-hour tutorial weekly. *A. Brunger*

Geography – Canadian Studies – Environmental & Resource Studies 333H/ WI – Wilderness resources

An examination of the wilderness concept and the history, planning and management of wilderness resources with special reference to national parks and Canada. Prerequisite: *Geography 231H* or *Canadian Studies 200H* or *Canadian Studies 204* or *Environmental & Resource Studies 250*. *Staff*

Geography – Canadian Studies 337H/ FA – Recreation geography issues

Examines the characteristics of, and issues pertaining to, recreation, tourism and parks in various environments from the city to the wilderness and abroad. Prerequisite: *Geography 231H*. Two-hour lecture weekly and seminar fortnightly. *S. Tufts*

Geography 341H/WI – Climatic change (Sc)

Mechanisms and patterns of changes in weather and climate, both natural and anthropogenic. An understanding of the principles of general circulation, global and local energy balance models, and basic meteorological processes is assumed. Prerequisite: *Geography 245* or *244H* or *246H*. Two-hour lecture weekly, two-hour lab occasionally. *G. Cogley*

Geography 342H – Hydrometeorology (Sc)

Studies in snow and ice. This course emphasizes physical and geographical aspects of different ice forms and their implications for human and biological activity. Measurement of snow and ice are studied in practical laboratories. Some field work during the Reading Week is expected. Prerequisite: *Geography 245* or *244H* or *246H* or permission of instructor.

Geography 351H/ FA – Glacial and quaternary geomorphology (Sc)

The principles of glaciology. Glacial landforms and landscapes, particularly those of southern Ontario. Quaternary history with illustrations of the principles and uses of radiocarbon dating, isotope ratio analysis and pollen analysis. The causes of Ice Ages. Prerequisite: *Geography 250* or *254H* or *256H* or *Geography 240*. Two-hour lecture weekly and two-hour laboratory fortnightly. *Staff*

Geography 353H – Hydrology (Sc)

Study of the movement of water through the environment with emphasis on terrestrial aspects including interception, infiltration, soil moisture, groundwater, surface runoff and stream-flow, also covering human impact on hydrological processes. Prerequisite: *Geography 245* or *244H* or *246H*. Two-hour lecture weekly, two-hour lab fortnightly, field work.

Geography 354H – Fluvial geomorphology (Sc)

Morphology of rivers and river systems; relationships between process and form. Erosion, transportation and deposition of sediments; channel morphology, the drainage basin as a geomorphic unit; human impact on river morphology. Prerequisite: *Geography 250* or *254H* or *256H* or *Geography 240* or permission of instructor. Two-hour lecture weekly and two-hour lab fortnightly, field work.

Geography 355H/WI – Water in the subsurface environment (Sc)

This course will examine the nature, occurrence and movement of water in soil and groundwater systems. Physical and chemical aspects of groundwater will be addressed, and the use of field techniques and mathematical models in the study of groundwater movement and contamination will be emphasized. Prerequisite: *Geography 353H* and *Mathematics 105H* or *Mathematics 110* or equivalent. Two-hour lecture weekly and two-hour laboratory fortnightly. *J. Buttle*

Geography – Environmental & Resource Science 356H/FA – Pedology (Sc)

The course will concentrate on the techniques employed in the analysis of the physical, hydrological, chemical and biological properties of soils, as well as those processes which control the development of the soil. Prerequisite: *Geography 250* or *254H* or *256H* or *Geography 240* or *Biology – Environmental & Resource Science 202* or *Biology – Environmental & Resource Science 217H* or permission of instructor. Two-hour lecture weekly, two-hour lab fortnightly. *J. Buttle*

Geography 357H/FA – Modelling applications in physical geography (Sc)

The course emphasizes modelling techniques in various aspects of earth science. Topics covered include: conceptual, analogue and mathematical models; problems of scaling and indeterminacy; parameter estimation; optimization techniques; sensitivity analysis; model evaluation. Examples of modelling techniques and applications will be drawn from physical geography. Prerequisite: *Geography 208H* and *Geography 245* or *250* or two of *Geography 244H*, *246H*, *254H* or *256H* and either *Mathematics 105H* or *Mathematics 110* or OAC Calculus. Two-hour lecture weekly, two-hour lab fortnightly. *C. McKenna Neuman*

Geography – Canadian Studies 363H – Historical geography of Canada before 1900

Geography of nineteenth-century Canada. Themes include environmental perception and transformation, immigration, settlement, cultural patterns, social institutions, industrialization, transportation and urbanization. Individual research projects using primary sources are encouraged particularly within the local setting of southern Ontario. Prerequisite: *Geography 263H*. Two-hour lecture and tutorial weekly, field trip.

Geography – Canadian Studies 364H – Geography of the Polar regions (Sc)

Study of selected aspects of the Polar regions with considerable reference to northern Canada but with the deliberate intention of developing comparisons between it and other parts of the Polar regions. Prerequisite: *Geography 103H* and one of *102H*, *104H* or *105H* or permission of instructor.

Geography – Environmental & Resource Science 365H – Soil management and conservation (Sc) (see Environmental & Resource Science/Studies)**Geography – Canadian Studies 371H/ WI – Urban planning**

The main planning principles which govern the economic, social and physical development of cities. National, provincial and municipal policies and their impact on the urban system. Historical development of planning. Comparative analysis of planning in North America and Europe. Prerequisite: *Geography 271H*. Two-hour lecture weekly and tutorial fortnightly. *A. Bain*

Geography – Canadian Studies 373H/FA – Internal city structure

This course explores the urban social structure of contemporary Western cities by examining how social relations, social identities, and social inequalities are produced, and the role of space in constructing them. Geographical perspectives on gender, occupation, ethnicity, age, disability, poverty, and sexuality are emphasized. Prerequisite: *Geography 271H*. Two-hour lecture weekly, one-hour tutorial weekly. *A. Bain*

Geography – Canadian Studies 376H – The rural-urban fringe

Rural-urban land conflicts occurring in the areas surrounding major cities, the problems arising from these conflicts and the types of policy required to resolve them. A particular focus will be the impact of urbanization on the countryside in Canada. Prerequisite: *Geography 103H* and one of *102H*, *104H* or *105H* or both *Economics 101H* and *102H* or *Sociology 100*. Two-hour lecture and tutorial weekly.

Geography – Canadian Studies 380H – Regional economic development

Analysis of how a region grows; regional responses to national economic development; the land use structure of regions; regional planning principles; review of Canadian regional planning policies. Prerequisite: *Geography 103H* and one of *102H*, *104H* or *105H* or both *Economics 101H* and *102H*. (Support course for International Development Studies.) Two-hour lecture weekly, one-hour seminar weekly.

Geography 386H/FA – Field research in geography (Sc)

This course is recommended for those pursuing the Honours thesis. Students will learn the skills of research proposal writing and project design, and will design and carry out a research project in a geographical specialization of their own choosing. The course centres on a mandatory field trip during the Reading Week. Prerequisite: *Geography 208H* and *211H* or *251H*. Minimum of six days in the field at cost to the student. One-hour lecture weekly and two-hour seminar weekly.

P. Lafleur

Geography 390, 391H, 392H, 393H – Reading course

Prerequisite: *Geography 103H* and one of *102H*, *104H* or *105*. (Offered only if instructor is available.)

Geography 395, 396H, 397H, 398H – Special topic in geography

(Offered only occasionally)

Geography 401, 402D – Honours thesis (Sc)

Students will engage in a major research project entailing periodic meetings with faculty. Seminar presentations in Fall and Winter sessions on research. Students taking this course are strongly encouraged to obtain full details of it and begin preparation before registering for the course.

Geography 402D is double-credit in Geography. *Geography 401* is single-credit because the same thesis is submitted to the other department/program in a joint-major. Prerequisite: two 300-level Geography full-course equivalents and a 70% average in Geography courses. Students must obtain the approval of the department before March 31, 2004. *J. Buttle*

Geography – Environmental & Resource Science 404H – Hydrochemical fluxes in the hydrosphere (Sc)

Monitoring, analysis and interpretation of hydrochemical fluxes within the hydrological cycle. Measurement, sampling techniques and instrumentation for streamflow, soil water content, organic and inorganic constituents in the unsaturated and saturated zones, atmospheric vapour fluxes, precipitation and snowcover. Prerequisite: *Geography 211H* and permission of instructor. Two-hour lecture weekly and two-hour laboratory fortnightly.

Geography – Environmental & Resource Science – Biology 406H – The geochemistry of natural waters (Sc) (see Environmental & Resource Science/Studies)

This is a graduate level course open to a limited number of fourth-year students with appropriate qualifications.

Geography – Environmental & Resource Science – Biology 407H – The fate of contaminants in the aquatic environment (Sc) (see Environmental & Resource Science/Studies)

This is a graduate level course open to a limited number of fourth-year students with appropriate qualifications.

Geography 411H/WI – Philosophy of geography

The evolution of geographical ideas, particularly concepts of place, region, environment or organization of space by nature and by society; philosophy of science and history; ethical issues, academic and social prejudice in geographical studies, radical geography. Prerequisite: *Geography 208H* and *Geography 211H* or *Geography – Environmental & Resource Studies 251H*. Two-hour lecture and tutorial weekly. Note: Open to students in third year. *A. Bain*

Geography 440 – Research in physical geography (Sc)

Reviews possibilities for, and methods of, research in applied physical geography. Requires independent research, either through a placement arranged by the Trent Centre for Community-Based Education (p. 206) at the request of a community group, government agency or business, or under the auspices of the Geography department. Develops means for increasing potential for future employment. Prerequisite: two courses from B. Sc. Category C (see above). Excludes *Geography 401* and *402D*. Open only to fourth year Geography students. Three hours of lecture/seminar fortnightly. *C. Taylor*

Geography – Environmental & Resource Science 445H/FA – Spatial modelling with Geographical Information Systems (Sc)

This advanced level course will focus on quantitative techniques used in conjunction with Geographical Information Systems (GIS) to model spatial phenomena. There will be instruction on spatial, geostatistical and mathematical techniques and their interface with GIS. This course is open to graduates of the Fleming-GIS program. Prerequisite: GIS Applications Specialist Certificate (or equivalent) and basic knowledge of Statistics (*Geography – Environmental & Resource Science 208H* or *Mathematics – Statistics 150*). Two one-hour lectures weekly and two-hour laboratory fortnightly. *R. Ponce*

Geography – Environmental Resource Science 464H – Watershed management in developing countries (Sc) (see Environmental Resource Science/Studies)

Geography 470 – Research in human geography

Reviews possibilities for, and methods of, research in applied human geography. Includes optional research requested by a community group, government agency or business, through the Trent Centre for Community-Based Education (see p. 206) or the Geography department. Develops *means for increasing employment potential through skills identification, communication improvement, resumé preparation and website creation*. Prerequisite: two courses from B.A. category C (see above). Excludes *Geography 401* and *402D*. Open only to fourth year Geography students. Three hours of lecture/seminar fortnightly. *S. Tufts and S. Wurtele*

Geography 495, 496H, 498H – Special topic in Honours geography

Systematic and/or regional geography on themes, problems and questions of interest to individual faculty. Prerequisite: fourth year standing and permission of instructor. (Offered only if instructor is available.)

German Studies

See Modern Languages

Global Studies

Telephone (705) 748-1314

Fax: (705) 748-1626

E-mail: tip@trentu.ca

Web: www.trentu.ca/tip

Director of the Trent International Program

A. M. Allcott, M.A. (Utah), Ph.D. (SUNY, Buffalo)

Courses in global and international studies are offered by several departments and programs at Trent, including Anthropology, Cultural Studies, Economics, English Literature, Environmental & Resource Science/Studies, Geography, History, International Development Studies, Modern Languages & Literatures, Native Studies, Philosophy, Political Studies, Sociology and Women's Studies. While students interested in global and international studies are encouraged to pursue majors in these fields, they can also choose from three special options in Global Studies: 1) a Special Concentration Honours program in Global Studies, 2) a Joint-Major Honours program in Globalization: Communities & Identities, and 3) a Joint-Major Honours program in International Political Economy. In addition, students other single- or joint-major Honours or General programs may qualify for an Emphasis in Global Studies (see p. 212). Moreover, all students with an interest in global studies are encouraged to incorporate a study abroad opportunity in their Trent education.

1. SPECIAL CONCENTRATION HONOURS PROGRAM IN GLOBAL STUDIES

Telephone (705) 748-1314

Fax: (705) 748-1626

E-mail: michaelallcott@trentu.ca

Web: www.trentu.ca/tip

Program Co-ordinator

A. M. Allcott, M.A. (Utah), Ph.D. (SUNY, Buffalo)

The Special Concentration program in Global Studies is available as an Honours degree option that combines study abroad with internationally-oriented studies in three or more disciplines.

Notes

- Students must include among their courses at least two of: *International Development 100*, *History 170* and *Politics 220*. Other courses are chosen from an approved list in consultation with the program co-ordinator. At least twelve courses, including those at the 100-level, must be in Global Studies.
- Students are normally required to study a language other than English, at least to the intermediate level, and to spend one year of undergraduate study in another country.

- At least three credits must be at the 400-level, including at least two in the Special Concentration.
- Applications for entry, a list of proposed courses and a rationale for these choices should be submitted to the program co-ordinator by April 1 in the first year of studies. Subsequently, the Global Studies Advisory Committee reviews applications and, before approving them, must ensure that proposed programs are coherent and meet University degree requirements.
- Entry into the program is normally conditional upon attaining a B average or better in the first year.
- Students in the program are required to meet with the program co-ordinator at the end of their third year, or before embarking on a third year of study abroad, to review plans for their final year. They must submit an Application to Graduate with a Special Concentration in Global Studies to the program co-ordinator by January 31 of their final year.
- see p. 22 for requirements which apply to all undergraduate degree programs.
- Students in the Special Concentration do not qualify for majors in other subjects. However, they may choose to specialize by taking an Emphasis in Globalization: Communities & Identities or an Emphasis in International Political Economy. The Emphasis will be noted on the transcript of graduating students.
- For all students admitted to the Special Concentration in 2002 or later, the degree consists of 20 (rather than 19) credits.
- Students admitted before 2003 may opt for either a Special Concentration in International Studies or a Special Concentration in Global Studies.

2. JOINT-MAJOR HONOURS PROGRAM IN GLOBALIZATION: COMMUNITIES & IDENTITIES

Telephone: (705) 748-1011 ext. 1837

E-mail: davinabhandar@trentu.ca

Program Co-ordinator

D. Bhandar, M.A., Ph.D. (York)

The joint-major Honours program in Globalization: Communities & Identities is intended for students with a particular interest in the human and cultural dimensions of globalization, which they wish to explore while pursuing a joint-major Honours option in another discipline. Encouraging students to combine relevant courses in the social sciences with those in the humanities, the program focuses on debates about globalization and its effects on culture, identity, community and diaspora. Themes include the impact of globalization on gender, race, ethnicity and Aboriginal rights; postcolonialism; the globalization of popular culture, film, music and mass media; border cultures and hybrid literatures; world cities and their networks; and human rights in a global perspective.

Notes

- see p. 22 for requirements which apply to all undergraduate degree programs.
- A minimum grade of C- (60%) is required in the three core courses.
- A study abroad year is strongly recommended but not required.
- Courses taken abroad may be counted towards the joint-major by permission of the program co-ordinator.
- Students are strongly encouraged to take courses offered by Modern Languages & Literatures.
- Students are strongly encouraged to take *Anthropology 100*, *History 170* and *Geography 103H*.
- A joint-major in Globalization excludes an Emphasis in Globalization.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.

The joint-major Honours program. At least 7 credits chosen from the following:

- *Politics 220*, *Cultural Studies – Native Studies 230*, *Anthropology 200*
- 1 credit from category A and 3 credits from category B
- at least 2 of the credits in the program at the 400 level

A

Politics 320H, 326H, 336H, 420H, 425H, 428, 495
Politics – International Development 327, 423H, 427H
Politics – International Development – Canadian Studies 424
Politics – Sociology 323

B

Anthropology 408H, 409H, 450H
Anthropology – International Development 301, 304, 306, 407, 475H, 476H
Canadian Studies – Politics – Sociology 300
Canadian Studies – Political Studies 440
Canadian Studies – English 466
Cultural Studies 345
Cultural Studies – International Development 332
Cultural Studies – Women's Studies 220
English 316H, 317H
Environmental & Resource Studies – International Development – Politics 360
Environmental & Resource Studies – International Development – Politics 461H
History 200, 450
History – Canadian Studies 304
History – International Development 2401H, 2402H, 2471H, 3401H, 3402H
International Development 395
International Development 4971H, 4972H
International Development – Politics 322H
International Development – Politics 425H
International Development – Sociology 396H
Native Studies 430
Native Studies – Environmental & Resource Studies 260, 363
Native Studies – International Development 305, 360, 482
Sociology 347, 382H, 480
Women's Studies 300
Women's Studies – International Development 225
Women's Studies – Political Studies 388
Women's Studies – Sociology 386H, 387H

3. JOINT-MAJOR HONOURS PROGRAM IN INTERNATIONAL POLITICAL ECONOMY

Telephone: (705) 748-1011 ext. 1004

E-mail: ehelleiner@trentu.ca

Program Co-ordinator

E. Helleiner, M.A., Ph.D. (London)

The joint-major Honours program in International Political Economy (IPE) is intended for students with a particular interest in the interconnected nature of the study of politics and economics at the international and global levels, which they wish to explore while pursuing a joint-major Honours option in another discipline or program. The globalization of economic life has raised the prominence of the study of IPE in recent years among scholars and students from a wide variety of academic backgrounds such as Economics, International Development Studies, and Political Studies, as well as Anthropology, Business Administration, Canadian Studies, Environmental & Resource Science/Studies, Geography, History, Native Studies, Sociology and Women's Studies.

Notes

- see p. 22 for requirements which apply to all undergraduate degree programs.
- A study abroad year is strongly recommended but not required.
- Courses taken abroad may be counted toward the joint major by special permission of the program co-ordinator.
- A joint-major in International Political Economy excludes an Emphasis in International Political Economy.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.

The joint-major Honours program. At least 7 credits chosen from the following:

- *Economics 101H, 102H, International Development 100, Politics 220*
- 1 credit from each of A, B and C
- 1 additional credit from one of A, B, or C or *History – Canadian Studies 308*.
- at least 1 of the credits in the program at the 300-level and at least 1 at the 400-level

A

Economics 311H, 312H, 362H, 398H

Economics – International Development 231H, 333H

B

Environmental & Resource Studies – International Development – Politics 461H

Environmental & Resource Studies – Politics – Canadian Studies 460H

International Development – Canadian Studies – Politics 424

Politics 320H, 322H, 324H, 325H, 326H, 420H, 425H, 428

Politics – Canadian Studies 321H

Politics – International Development 327, 423H, 427H

Politics – Sociology 323H

Women's Studies – Politics 388

C

Anthropology – International Development 301, 304, 407

Environmental & Resource Studies – International Development – Politics 360

History – International Development, 2401H, 2402H, 2471H, 2472H, 3401H, 3402H

International Development 200, 397H, 400, 422

International Development – Anthropology 221

Native Studies – International Development 305

Women's Studies – International Development 225

STUDY ABROAD OPPORTUNITIES

The Trent International Study and Exchange Program (TISEP) is open to students in all disciplines. TISEP offers exchange and study-abroad opportunities in the United Kingdom, continental Europe, the United States, Latin America, Africa and Asia. For more details, see International Educational Opportunities (p. 220). Students interested in an exchange program should contact the Manager of International Programs and Services in the Trent International Program by the middle of the first session. Applications are due February 2.

Year-abroad programs for students of the French, German and Spanish languages are located in France, Germany and Spain respectively (see Modern Languages & Literatures). International Development Studies offers year-abroad programs in Ecuador and Ghana every year, and Native Studies sponsors a year of study in Thailand. Both the International Development Studies and Native Studies programs combine academic courses with work-placement experience.

Students receive full credit for all approved courses successfully completed in exchange and year-abroad programs, including courses in community development that involve work placements.

Greek

See Ancient History & Classics

Hispanic Studies

See Modern Languages

History

Telephone: (705) 748-1011 ext. 1575

Fax: (705) 748-1821

E-mail: history@trentu.ca

Web: www.trentu.ca/history

Associate Professor and Chair of the Department

O. Andrewsky, B.A. (Brown), M.A., Ph.D. (Harvard)

Professors

E. H. Jones, B.A. (Saskatchewan), M.A. (Western Ontario), Ph.D. (Queen's); **J. S. Milloy**, B.A. (St Patrick's), M.A. (Carleton), D.Phil. (Oxford); **S. T. Robson**, B.A. (British Columbia), D.Phil. (Oxford) (*on leave 2004-2005*); **J. Sangster**, B.A. (Trent), M.A., Ph.D. (McMaster); **D. M. K. Sheinin**, B.Sc. (Toronto), M.A., Ph.D. (Connecticut); **S. D. Standen**, B.A. (British Columbia), M.A. (Oregon), Ph.D. (Toronto) (*on leave Fall session*); **J. E. Struthers**, M.A. (Carleton), Ph.D. (Toronto); **G. Taylor**, B.A., Ph.D. (Pennsylvania); **K. Walden**, M.A., Ph.D. (Queen's)

Associate Professors

I. Elbl, M.A. (Charles), M.A., Ph.D. (Toronto); **J. Jennings**, B.A. (Toronto), M.A. (Calgary), Ph.D. (Toronto) (*on leave 2004-2005*); **C. Kay**, B.A. (Toronto), M. Phil. (Oxford), M.A., Ph.D. (Yale); **T. J. Stapleton**, B.A. (Memorial), M.A., Ph.D. (Dalhousie); **F. Harris Stoertz**, B.A. (Calgary), M.A., Ph.D. (California)

Assistant Professors

D. Anastakis, B.A. (Western), M.A., Ph.D. (York); **F. Dunaway**, B.A. (N.Carolina), Ph.D. (Rutgers); **J. Hurl-Eamon**, B.A. (U.W.O.), M.A. (Queen's), Ph.D. (York); **V. Nguyen-Marshall**, B.A. (Dalhousie), M.A. (British Columbia), Ph.D. (British Columbia); **K. Siena**, B.A. (SUNY), M.A. (Rochester), Ph.D. (Toronto); **R. A. Wright**, B.A. (Trent), M.A., Ph.D. (Queen's)

Professors Emeriti

J. C. Barker, M.A. (Cambridge, Toronto), M.Div. (Yale), Ph.D. (Toronto); **C. M. Greene**, A.B. (Amherst), A.M. (Columbia), Ph.D. (Harvard); **F. A. Hagar**, A.B. (Harvard), M.A., Ph.D. (California-Berkeley), M.Litt. (Cambridge); **B. W. Hodgins**, B.A. (Western Ontario), M.A. (Queen's), Ph.D. (Duke); **D. McCalla**, B.A. (Queen's), M.A. (Toronto), D.Phil. (Oxford); **P. M. Morton**, M.A., Ph.D. (Toronto); **J. Syrett**, B.A. (Columbia), M.A., Ph.D. (Wisconsin); **A. Wilson**, M.A. (Dalhousie), Ph.D. (Toronto)

Adjunct Faculty

M. Buddle, B.A. (Guelph), M.A. Ph.D. (UNBC); **A. Butler**, B.A. (Memorial), M.A. (Western), M.A. (Memorial); **M. Elbl**, M.A. (Charles), M.A. (Toronto); **C. Forsberg**, B.A., B.Ed., M.A. (Calgary), Ph.D. (Queen's); **A. Falby**, B.A. (McGill), D.Phil. (Oxford); **D. Gorman**, B.A. (St. Francis Xavier), M.A. (Queen's), Ph.D. (McMaster); **A. King**, B.A., M.A. Ph.D. (Toronto); **J. Longo**, B.A. (Ottawa), M.A. (McMaster), Ph.D. (Wayne State); **B. Mehta**, B.A. (Trent), B.Ed. (Queen's), M.A. (Trent); **N. Panthaki**, B.A. (Toronto), M.A. (York); **D. Schweitzer**, B.A., M.A. (Guelph), Ph.D. (London); **T. Smith**, B.A. (Toronto), Ph.D. (Rutgers); **K. Spooner**, B.A. (Trent), B.Ed. (Queen's); M.A., Ph.D. (Carleton); **N. Thornton**, B.A. (Trent), B.Ed. (Ottawa), Ph.D. (Adelaide)

Associated Faculty

Ancient History: **K. H. Kinzl**, D.Phil. (Vienna); **D. F. R. Page**, B.A. (Sheffield)

The History department offers courses on Canadian, American, Latin American, European, African and Asian history. They explore such themes as women's history, Aboriginal history, ethnicity, work, culture (both popular and elite), political history (both domestic and international), war, business, heritage and applied history. The department is committed to small-group learning, effective teacher-student interaction, excellence in research and creative links to other academic programs and public institutions.

Notes

- C- (60%) or higher in a 100-level History course is a prerequisite for all upper level History courses.
- After completion of four credits at the 100-level, students will normally enrol in two courses at the 200-level, but they may apply for courses at the 300-level, and may be admitted subject to enrolments limits and with permission of the instructor.
- A History course at the 200-level may substitute for one at the 100-level with the permission of the chair of the department.
- Enrolment limits will apply to most courses above the 100-level. Please refer to the Academic Timetable for more information.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in History, if they have met the requirements for the joint-major General degree (see below).
- Departures from any regulations must be authorized by the department through the chair.

BACHELOR OF ARTS PROGRAM IN HISTORY

- see p. 22 for requirements which apply to all undergraduate degree programs.
- Students who take more than one 100-level history course are reminded that there is a maximum number of history courses allowable in the degree. Please see p. 23 for more information.
- Students in the single-major or joint-major program in History must complete at least 0.5 credit from each of the three categories below. Some courses appear in two categories and fulfil two category requirements. It is recommended that students considering a third year abroad satisfy this requirement in the second year of their program.

A	B	C
205	211 304	205 3401H
208	221H 3071H	208 3402H
225	222H 3072H	220 345
230	230 308	223 350
2401H	232 3101H	225 351
247	235 3102H	2401H 355H
276	254 311	2402H 360
3031H	255 312	247 370
311	270 316	276 380
345	300 324	320 385
350	301 345	330 3951
355H	3021H 395	335
360	3022H 3954H	336
380	3031H 3955H	337H
385		

- One credit in Classical History at an upper level (except for *Classical History 201*) may be counted as a credit in History. A second credit in Classical History may be counted as a credit in History, with the permission of the chair of the department.
- Admission to courses at the 400-level normally requires prior completion of 15 credits, including five History credits. Students may apply for admission after completion of 13 credits, including five History credits, in which case the application must be approved by the chair of the department.

The single-major Honours program. At least 9 credits in History, including:

- at least 1 credit at the 100-level
- 3 credits at the 200- or 300-level
- 2 additional credits at the 300-level
- 3 credits at the 400-level

The joint-major Honours program. At least 7 credits in History, including:

- at least 1 credit at the 100-level
- 3 credits at the 200- or 300-level
- 1 additional credit at the 300-level
- 2 credits at the 400-level

The single-major General program. At least 6 credits in History, including:

- at least 1 credit at the 100-level
- 3 credits at the 200- or 300-level
- 2 additional credits at the 300-level

The joint-major General program. At least 5 credits in History, including:

- at least 1 credit at the 100-level
- 3 credits at the 200- or 300-level
- 1 additional credit at the 300-level

Please consult the academic timetable to determine which of the courses listed will be offered in 2004-2005.

History 100 – Canada

Selected problems critically examined. Not a survey, the course examines issues in Canada's social, political, intellectual, regional and economic history, with an emphasis on new interpretations. Weekly lectures and tutorials. Taught as *Hist 1001H/FA* and *1002H/WI* in Oshawa. *Staff*

History – Canadian Studies 102 – Nation and citizenship: Interpreting Canada (offered in Oshawa only)

This course will provide both historical and interdisciplinary approaches to modern Canada, interpreting diverse and competing ideas of nation and citizenship. Topics include political citizenship, regional protest, women's culture, native/white relations, Canadian culture, language and identity, immigration and multiculturalism, and the emergence and retreat of the welfare state. Weekly lectures, workshops and tutorials. *R. Wright*

History 120 – Western European history from the Middle Ages to the present (offered in Oshawa only)

Subjects covered include the Middle Ages, the Renaissance, the Enlightenment, the French Revolution, the 19th-century women's movement, the industrial revolution, the world wars, Nazism, the Russian Revolution, the Holocaust and Europe since 1945. Weekly lecture and tutorials. *J. Hurl-Eamon*

History 150 – Ten days that shook the world

Theme for 2004–2005: Terror. An examination of ten events, both "big" and "small", and how they can be linked to larger social, cultural, political, and economic transformations. Not a chronological survey, the course explores the nature of historical change through a series of case studies while introducing students to the basic methods of historical analysis. Weekly lectures and tutorials. *Staff*.

History 170 – Conquest, resistance and revolution

This course examines how certain groups have sought to conquer and exploit others, and how subordinated peoples responded through various forms of resistance and revolution. It will focus on how the West came to dominate much of Africa, Latin America and Asia, creating a global division between rich and poor nations. Weekly lectures and tutorials. *Staff*.

History 205 – The medieval panorama

Western Europe from the birth of Christianity and collapse of the Roman Empire in the West to the calamities and innovations of the fourteenth and fifteenth centuries. Explores social, political, economic and religious developments, and the culture, experiences, and expectations of women and men. Weekly Lecture and tutorial. *Staff*

History 208 – The Social History of Europe, 1500-1800 (offered in Oshawa only)

The course traces early modern European history from the Protestant Reformation to the French Revolution. With an emphasis on the different experiences of Europeans based upon their age, gender, class and religion. Weekly lecture and tutorials. *J. Hurl-Eamon*

History 211 – The United States from 1775-1880

The roots of modern America: revolution, nation building, civil war, reconstruction. Themes include accommodation with British North America and with Native Americans; reform movements related to slavery abolition, industrialization, women, religion, nature. Two-hour lecture and two-hour workshop weekly. *E. Jones*

History 220 – Europe from the Enlightenment through World War II

A study of problems in the development of modern Western society from various perspectives, using a variety of modern and contemporary sources. Weekly lecture and tutorials. *Staff*

History – Canadian Studies – Politics 221H – "Empire Ontario" 1867-1945 (see Canadian Studies)**History – Canadian Studies – Politics 222H – Ontario since 1945: From "the common good" to "common sense"** (see Canadian Studies)**History – Sociology 223 – The other Europe**

Eastern Europe from 1848 to 1991, with special focus on the "small nations" and minorities of East Central Europe: the Czechs, Poles, Jews and Ukrainians. Particular attention will be devoted to modernization and nation-building, the development of civil society, the impact of war, the social aspects of integration and disintegration, experiments with statehood, and the nature, experience, and collapse of Communism. (Not offered this year.)

History 225 – Russian history from the thirteenth century to the present

An exploration of political, cultural, social, and economic history and the ways in which they intersect. With special emphasis on the formation of Russian identity and Russian attitudes towards "the West," and the paradox of great power ambitions and economic underdevelopment. Lectures and on-line tutorials. *O. Andriewsky*

History – Canadian Studies 230 – The making of Canada, 1760-1873

War, politics and society in British North America from the Conquest to Confederation. Weekly lecture and tutorial. *Staff*

History – Canadian Studies 232 – The history of education in Canada in the 19th and 20th century

The influences of class, race and gender on education in Canada in the 19th and 20th centuries. This course will consider issues such as the impact of immigrants, who went to school and why, the role of government in making policy, and the role of women and girls in the educational system. Weekly lecture. *Staff*

History – Canadian Studies 235 – Canada since 1914

National history with a focus on domestic issues, development and policy in the 20th century. Weekly lecture and tutorial. *D. Anastakis*

History – International Development 2401H/FA – The emergence of modern Africa before 1880

A survey of the continent's history from earliest pre-colonial times to the eve of European colonial conquest, focusing on diversity and change in African societies. Themes include the development of pre-colonial technology and trade, state formation and Africa's incorporation in the growing world economy. Weekly lecture and seminars. *T. Stapleton*

History – International Development 2402H/WI – The emergence of modern Africa since 1880

A survey of the continent's history from the colonial conquest of the late nineteenth century to the independent states of the present day. Themes include African resistance to colonial rule, social and economic change. African nationalism and decolonialization, underdevelopment and neo-colonialism after independence, and the search for solutions to problems such as poverty and ethnic tensions. Weekly lecture and seminars. *T. Stapleton*

History – International Development 247 – Introduction to Latin America, 1500-1990

Topics include native resistance, colonial domination, slavery, independence, neo-colonialism, nation building, dictatorship, and revolutionary change. Weekly lecture and tutorial. *D. Sheinin*

History – Canadian Studies 254 – Canada and the modern experience

The course explores some characteristics of modernity since 1890, with Canada as an example. Among the topics examined will be photography, travel, crime, new styles of business, government and educational organization, and changing attitudes toward sex, death and religion. Weekly lecture and tutorials. *K. Walden*

History – Native Studies – Canadian Studies 255 – History of Indians of Canada

(see Native Studies)

History – Native Studies – Canadian Studies 270 – History and politics of the Métis

(see Native Studies)

History – Women's Studies 276 – Women in Britain and Europe

A survey of British/European women's history with special emphasis on the medieval, Renaissance and early modern periods. Weekly lecture and tutorial.

History – Canadian Studies 3021H – Quebec 1867–1930

The making of modern Quebec to the eve of the Great Depression. Urban and industrial transformation, work, immigration and migration, liberalism, nationalism, religion, gender, ethnicity, war, ideological conflict. (Not offered this year)

History – Canadian Studies 3022H – Québec since 1930

Modern Quebec since the Great Depression. Reform movements and nationalism, world war, the Age of Duplessis; the Quiet Revolution; minorities, immigration, language and cultural conflict; social change and work; sovereignty, Provincial power, Aboriginal rights. (Not offered this year.)

History – Canadian Studies 3031H – France in America to 1763

The French encounter with America, including Amerindian relations, war, society, economy and ideology. Focus on Canada; comparisons with the Antilles and Louisiana. (Not offered this year.)

History – Canadian Studies 304 – Canada and the world since 1900

Major themes include the evolution from "colony to nation," the World Wars, Canadian-American relations, Canada's role in the Commonwealth, the U.N. and NATO, peacekeeping, links with the Third World, the changing ethnic makeup of the country, which has resulted in what is perhaps the world's first truly multicultural nation. Weekly lecture and tutorial. *Staff*

History – Canadian Studies 3071H/WWI – Public history I

Confronting history in real life. Issues in the practice of history outside the academy: museums, historic sites, theme parks, documentaries, popular history. The Canadian experience in wider context. Weekly lecture and tutorial. Field trip fee of \$50. *S. D. Standen*

History – Canadian Studies 3072H/WWI – Public history II

Confronting history in real life. Issues in the practice of history outside the academy: archives, film, the courts, business, public policy, heritage tourism, the schools. The Canadian experience in wider context. (Not offered this year.)

History – Canadian Studies 308 – Business history: The Canadian experience in international perspective

From the age of the great European trading companies of the 1600s to the era of multinationals, businesses in Canada have emerged in the context of both the needs of national markets and the pressures of broader trends in finance, technology and organization. This course explores both aspects of Canadian business history. Weekly lecture/discussion. *G. Taylor*

History 3101H/FA – Topics in the history of the United States, 1880–1900

The Age of Reform. Traces rapid political, economic, social and cultural changes in the decades following the Civil War, the emphasis on industrialization and its impact, urban growth, immigration, the conquest of First Nations in the West, the culture of work and the growing influence of the United States in other countries. (Not offered this year.)

History 3102H/WWI – Topics in the history of the United States, 1900–1930

This course charts, among many themes, the rise of big business and the anti-trust movement in the nineteenth century, the emergence of modern political parties, cultural fixtures of the segregated south, the United States at war, and labour politics. (Not offered this year.)

History 311 – Colonial and revolutionary America, 1630–1800

Explorations in the social, economic, religious and intellectual aspects of political change in the thirteen colonies. Lecture weekly and tutorial fortnightly. *E. Jones*

History 312 – Contemporary United States

The social, cultural, political and foreign policy developments from the 1929 Crash to the present. Weekly lecture and tutorial. *F. Dunaway*

History – Canadian Studies – Women's Studies 316 – Canadian women's history

Selected themes in Canadian women's history from the 18th to the 20th century. Emphasis is placed on class, race and gender in shaping women's experiences and on interpretive debates in women's history. Weekly lecture and tutorials. *Staff*

History 320 – Modern British history, from the Industrial Revolution to the era of Margaret Thatcher

Special emphasis on the Victorians, culture, class and gender, and the making of modern British society. Offered on-line only. *Staff*

History – Canadian Studies 324 – Canada: The North (see Canadian Studies)**History 330 – Modern German history, 1815 to the present**

The political, social, economic and cultural history of the modern German nation, with special emphasis on the eras of Wilhelmine Germany, the Weimar Republic and the Third Reich. Lecture weekly and tutorial fortnightly. *C. Kay*

History 335 – The era of the First World War

This course examines the political, military, social, economic and cultural aspects of a war that 'destroyed millions of people, brought about the collapse of four empires, and ended the illusion that European civilization was superior to all others. Weekly lecture and tutorials. *Staff*

History 336 – The era of the Second World War

The major focus is on the European experience in a global context. Weekly lectures and tutorials. (Not offered this year)

History 337H – History of espionage, intelligence, and surveillance

A survey of key Western and selected non-Western secret service and secret police forces and their operations, including aspects of nineteenth-century imperial and colonial secret services; the Abwehr, the SS Sicherheitsdienst, and the GDR's Stasi; the Cheka, KGB, and GRU; the OSS, the CIA and Britain's MI5 and MI6; and Israel's Mossad. Two hour lecture weekly. Excludes *History 3951H (03-04)*. *Staff*

History – International Development 3401H/FA – Southern Africa in the 19th century

An examination of major issues, including the gradual British colonial conquest of the Xhosa people in the Cape, the Boer trek into the interior, African military resistance to colonial expansion and the impact of mineral discoveries. Weekly lectures and tutorials. *T. Stapleton*

History – International Development 3402H/WI – Southern Africa in the 20th century

Themes will include the Union of South Africa in 1910, the development of African nationalism and trade unions, the rise of the Apartheid state from 1948, wars of liberation in Angola and Mozambique, the Rhodesian crisis, South Africa's campaign to destabilize the Frontline States in the 1980s and post-Apartheid issues. Weekly lectures and tutorials. *T. Stapleton*

History – French 351 – La civilisation française

(Offered in Nantes only. See French Studies)

History 355H/WI – Medieval Warfare

An examination of developments in warfare during the European Middle Ages (300 CE to 1500 CE). *F. Harris-Stoertz*

History 360 – The expansion of Europe from 1450–1825

This course explores the origins of the European overseas expansion; the participating European powers; the relationship between explorations, trade, colonization; the relative impact of the expansion on the societies of the Americas, Africa and Asia; and its repercussions in European politics, economy, lifestyle and intellectual life. Two hour lecture and one hour tutorial weekly. Excludes *History 200. I. Elbl*

History 370 – The History of Eastern Asia, 1600–1900

A survey of modern China and Japan as well as some Southeast Asian countries (Vietnam, Indonesia, and the Philippines). The emphasis will be on cultural and historical diversities, regional dynamism and exchanges, and the wars and revolutions of the twentieth century. Weekly lecture and tutorials. Excludes *History 3953, (03-04)*. *V. Nguyen-Marshall*

History 380 – Early modern Europe

Selected social, economic, institutional, intellectual and cultural features of early modern Europe (c.1500 – c.1800), with special emphasis on popular culture, including such themes as gender relations, sexuality, popular religion, riots, literacy, crime and popular politics. Weekly lecture and tutorial. *K. Siena*

History 385 – The history of crime in England (offered in Oshawa only)

A social history of crime between 1500 and 1900, from the perspective of the prosecutors and the courts as well as that of the criminals. Topics include witchcraft, sodomy, murder, theft, rape, and prostitution. Weekly lecture and tutorial. *J. Hurl-Eamon.*

History 395 – Special topic courses**History 3951 – Topics in modern German history – The Holocaust** (offered in Oshawa only)

See History 430. *R. Wright*

History – Native Studies 400 – Research seminar in Aboriginal history (see Native Studies)**History 405 – Topics in medieval history**

A seminar course on select aspects of medieval European history. (Not offered this year.)

History – Canadian Studies 406 – Upper Canada, 1784–1867

An exploration of historical spaces where the large historical processes associated with modernity have intersected with local realities, with attention to theoretical and topical literature. (Not offered this year.)

History – Canadian Studies 407 – The Canadian-American frontier

The Canadian West from first contact between Europeans and Native People to the end of the settlement period in the early twentieth century. Special emphasis on Indian-White relations, exploration, the fur trade, rebellions, government policies, the ranching and farming frontiers and the influx of new immigrant groups. Comparisons with the American West. Weekly seminar. (Not offered this year.)

History – Canadian Studies – Native Studies 425 – The evolution of the Settlement Commonwealth (see Native Studies)**History – Canadian Studies 420 – Canadian images** – (see Canadian Studies)**History 430 – Topics in modern German history**

Topic for 2004-2005: the Holocaust. Advanced seminar on select topics in modern German history. (Also offered in Oshawa, instructor, *R. Wright*) Excludes History 4902. *C. Kay*

History – Canadian Studies – Politics 435 – The History of the radical book in Canada, 1860–1970 (see Canadian Studies)**History 440 – Aspects of modern history**

A combination seminar-reading course. (not offered this year)

History 447 – Topics in Latin American history

Topic for 2004-05: Indigenous Peoples of Latin America. This course will look at the notion of community and nation among Indigenous Peoples of Latin America after 1850. As well it will look at the clash between communities, nations and the non-native nation-state. Excludes *Native Studies 420*. *D. Sheinin*

History 450 – The world, 1350–1750

An examination of the patterns of continuity and change in a period of world history marked, among other developments, by the rise of Europe and emergence of capitalism. The focus is the relationship between political power, economy, social structures, culture, values and attitudes in various world societies. Orientation period, readings on selected themes, individual research projects and presentations. Weekly Seminars. *I. Elbl*

History 460 – Topics in Russian and East European history

An intensive reading and writing course on select aspects of modern Russian and East European history. Special focus on historiography and problems of interpretation. (Not offered this year.)

History 470 – The Vietnam War

An examination of the many perspectives and dimensions of the American-Vietnam War, 1960–1975, with an emphasis on the social and political aspects of the war. While the focus will be on the Vietnam War as a national conflict, the international dimensions will also be examined. Weekly seminar. Excludes History 418. *V. Nguyen-Marshall*

History – Canadian Studies 475 – History of everyday life: A course in applied history

Research and interpretation of ordinary life in the past, with emphasis on comparative theory, method and approaches, using primarily Canadian themes. Group projects and occasional field trips to museums. There will be a field trip of two or three days during the Fall reading break; field trip fee is \$125. Weekly seminars and/or other meetings. (Not offered this year.)

History – Canadian Studies 476 – Canadian working-class history

Selected themes exploring the Canadian working-class experience from the late 19th century to the present. Topics include working-class culture and institutions, family life, the changing sexual and racial divisions of labour, politics and reform and the emergence of the trade union movement. Two hour seminar weekly. (not open to students of *History 3954H* (03-04) *J. Sangster*)

History – Canadian Studies – Politics 477 – Studies in Canadian social policy

(see Canadian Studies)

History 490 – Reading course

Individual courses designed to provide opportunities for more intensive study of particular topics in areas of history offered by the department. Open to undergraduates in the fourth year of the Honours program in History or by special permission. Prior consultation with relevant tutors is essential. Regular consultation during the year.

History 4901 – The era of the First World War

History 335 offered at a 400-level. Students are required to attend the weekly lecture and tutorials in *History 335*. *Staff*

History 4904 – Rebellions and civil wars in sub-Saharan Africa

This course will focus on violent protest in Sub-Saharan Africa from the late 19th century to the present day. It will begin with an examination of the many peasant uprisings against the exploitation of colonial rule and ultimately look at the recent African civil wars which have been fueled by diamond mining. Weekly seminar. (Not offered this year.)

History 495 – Special topic courses**History 4951 – The social history of health and healing in Europe 1500–1800**

Topics include: the gendered construction of the body, alternative healing, female healers, constructions of mental health, charity, institutionalization, professionalization, and the doctor-patient relationship. We will use healing as a window to explore broader social relations in early modern Europe. Weekly seminars. *K. Siena*

History 4952 – North American popular culture

A study of North American Entertainment from the early 19th century to the late 20th century. The course will focus on both the evolution and social impact of dominant media forms, and on representative figures who captured public attention. Weekly seminar. *K. Walden*

History 4953 – The history of crime in England (offered in Oshawa only)

History 385 offered at a 400-level. Students are required to attend weekly lecture and tutorials in *History 385*. *J. Hurl-Eamon*.

History 4954 – Topics in the history of the United States: American Politics in the 20th century

Underlying the rhetoric and personalities in U.S. presidential campaigns are longer term trends in voter loyalties, the organization of political parties, and the intersection of political ideologies and economic interests. This course looks at two major shifts in American politics since the 1930s. Weekly Seminars. *G. Taylor*

History 4955 – Victorian and Edwardian Britain: Culture and society

The social and cultural history of Britain from the 1830s to 1914. Topics include: the emergence of class identities, the experience of industrialization and urbanization, the changing position of women, imperialism and the construction of "whiteness," and the rise of a consumer society. Weekly seminars.

History 4956 – Civil War America

Explorations in aspects of American life and politics, 1840–1880, including religion, reform, slavery, the U.S. Civil War (1861–65), Reconstruction and civil rights. Weekly seminars. *E. Jones*

History 4959 – Topics in modern European history

See departmental prospectus available in March 2004 for details. *Staff*

Other courses offered periodically:

History – Canadian Studies – Politics 301 – Canadian political culture 1864 to present

History – Anthropology 345 – History of slavery

History 350 – Studies in the history of France 1750–1914

History 399 – Historians and history

History 415 – The American South

History 451 – The enlightenment in Britain, France and America

Indigenous Environmental Studies

Telephone: (705) 748-1011 ext. 1466
Fax: (705) 748-1416

E-mail: lesimpson@trentu.ca
Web: www.trentu.ca/ers

Director of the Program

L. Simpson (Anishinaabe Kwe), B.Sc. (Guelph), M.Sc. (Mount Allison), Ph.D. (Manitoba)

The Indigenous Environmental Studies program provides an interdisciplinary and creative approach to environmental issues affecting Aboriginal communities. The program blends Indigenous and western environmental perspectives and is offered jointly by Environmental & Resource Science/Studies and Native Studies. It is available as a Specialization in either the B.A. or B.Sc. programs or as a Diploma. The Diploma is mainly intended for students of Aboriginal ancestry.

DIPLOMA IN INDIGENOUS ENVIRONMENTAL STUDIES

- The Diploma is a two-year program open to students of Aboriginal ancestry who have the equivalent of Ontario Grade 12 or qualify as mature students.
- The Diploma will be awarded upon successful completion of the program. With it will be included a Trent University transcript identifying all courses undertaken and grades received.
- Students who have earned the Diploma may apply for admission to the B.A. program in Native Studies or the B.A. or B.Sc. program in Environmental & Resource Science/Studies. Credits earned in the Diploma program are transferable to the B.A. and B.Sc. degrees.
- Application to the program should be made to the Office of the Registrar.
- Inquiries should be directed to Leanne Simpson, Director.

Courses

In the first Summer pre-session, students are required to successfully complete one non-credit course: *Communications 91* (see p. 164). During either the first or second year, students are required to successfully complete a field course, *Environmental & Resource Science – Native Studies 215H*. The following 6.5 credits are required to complete the program:

- *Environmental & Resource Science 100*, *Environmental & Resource Studies 215H*, *Environmental & Resource Studies – Canadian Studies 250*, *Environmental & Resource Studies – Native Studies 260*, *Native Studies 100*, *150H* and *151H*
- 1 additional credit from Native Studies or Environmental & Resource Science/Studies

SPECIALIZATION IN INDIGENOUS ENVIRONMENTAL STUDIES

The Specialization in Indigenous Environmental Studies is available to students in the Bachelor of Arts program in Environmental & Resource Studies and/or Native Studies and in the Bachelor of Science program in Environmental & Resource Science. The Emphasis is designed to provide students with a theoretical and practical framework for working on environmental and natural resources issues involving Aboriginal Peoples.

The transcripts of students graduating with a General or Honours degree who have successfully completed the requirements of the Specialization will contain the notation "with a Specialization in Indigenous Environmental Studies."

Students earn the Specialization in Indigenous Environmental Studies by successfully completing the following 7.5 credits:

- *Environmental & Resource Science 100*, *Native Studies 100*, *Environmental & Resource Science – Native Studies 215H* or *Environmental & Resource Science 221H*, *Environmental & Resource Studies – Canadian Studies 250*, *Environmental & Resource Studies – Native Studies 260* and *363*
- 1 additional credit in Environmental & Resource Science/Studies
- 1 additional credit in Native Studies

Please consult the academic timetable to determine which of the courses listed will be offered in 2004–2005.

Native Studies – Environmental & Resource Science 215H – Environmental assessment techniques for Aboriginal communities

This course will provide students with appropriate western scientific theory and basic scientific skills to address environmental and natural resource issues frequently encountered on Indigenous lands. It will be offered as a two week intensive course at the Oliver Ecological Centre. Not open to students in a B.Sc. program.

Native Studies – Environmental & Resource Studies 260 – Introduction to Indigenous Environmental Studies

This course explores Indigenous worldviews, environmental philosophies and values through exposure to the perspectives of Indigenous Elders, community people, political leaders, academics, activists and scholars. Students will also be introduced to Indigenous knowledge as it pertains to the environment. Prerequisite: *Native Studies 100* or *Native Studies 200*.

Native Studies – Environmental & Resource Studies 363 – Issues in Indigenous Environmental Studies

This course explores contemporary environmental issues and solutions as defined by Aboriginal Peoples at the community, nation and international levels. Topics may vary from year to year based on student interest and current issues facing Aboriginal Peoples. Prerequisite: *Environmental & Resource Studies – Native Studies 260*.

International Development Studies

Telephone: (705) 748-1339

E-mail: ids@trentu.ca

Fax: (705) 748-1624

Web: www.trentu.ca/ids

Associate Professor and Chair of the Program

J. Clapp, B.A. (Michigan), M.Sc., Ph.D. (London)

Associate Professor and Canada Research Chair

E. Helleiner, B.A. (Toronto), M.A., Ph.D. (London) (*on leave 2004-2005*)

Professors

C. V. Huxley, B.A. (York, England), M.A. (Simon Fraser), Ph.D. (Toronto) (*on leave Fall session*);

D. R. Morrison, M.A. (Saskatchewan), D.Phil. (Sussex)

Associate Professors

W. Lem, M.A., Ph.D. (Toronto); **R. D. Powell**, Lic. en Historia (Cordoba), Ph.D. (McGill);

J. Solway, B.A. (Oakland), M.A., Ph.D. (Toronto) (*on leave Fall session*)

Assistant Professors

D. Hall, B.A. (Trent), M.A. (York), Ph.D. (Cornell)

Lecturer

C. Beyers, B.A. (Trent), M.A. (York)

Associated Faculty

Anthropology: A. Meneley. Business Administration: R. Dart. Economics: S. Choudhry. Cultural Studies: A. O'Connor. Environmental & Resource Science/Studies: S. Bocking, R. Ponce-Hernandez, T. Whillans. Hispanic Studies: T. Noriega. History: D. Sheinin, T. Stapleton. Native Studies: D. N. McCaskill. Political Studies: M. Neufeld, A. Pickel, Women's Studies: C. O'Manique

Professor Emeritus

J. Hillman, M.A. (Oxford), Ph.D. (SUNY, Buffalo)

Conjunct Professors

B. Beck, B.A. (Chicago), B.Litt. (Oxford), D.Phil. (Oxford); **T. Korovkin**, M.A. (Moscow), M.A. (York), Ph.D. (York); **S. Langdon**, B.A. (Toronto), M.A. (Carleton), D.Phil. (Sussex); **S. Gariba**, B.A. (Ghana), M.A., Ph.D. (Carleton)

International Development Studies involves the comparative examination of societies and cultures undergoing rapid change, and of the complex global relations between industrialized countries and the developing areas of Africa, Asia, the Caribbean and Latin America. It is offered with the co-operation of the following departments and programs: Anthropology, Cultural Studies, Economics, Environmental & Resource Science/Studies, Geography, History, Hispanic Studies, Native Studies, Political Studies, Sociology and Women's Studies.

Revision to requirements for the Honours degree in International Development Studies

Beginning in the 2001–2002 academic year the Honours degree in International Development Studies consists of 20 (rather than 19) credits. This change took effect with students selecting their majors after the start of the 2001–2002 academic year, and does not apply to any students who previously declared a major in International Development Studies.

Notes

- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in International Development Studies, if they have met the requirements for the joint-major General degree (see below).

BACHELOR OF ARTS PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES

- see p. 22 for requirements which apply to all undergraduate degree programs.
- There is no single-major General program in International Development Studies.
- Students are strongly encouraged to enrol in some of the following courses: *Economics 101H, 102H* (both required in the single-major Honours program), *Anthropology 100, Politics 100, History 170 or Sociology 100*.
- Students undertaking the joint-major program in Anthropology and International Development Studies may substitute *International Development – Anthropology 221* for one of *Anthropology 212, 230 or 240* in their Anthropology requirements.
- Depending upon their area of interest, students are encouraged to enrol in French or Spanish language courses.
- The following is a list of support courses approved by the program. One credit in a support course may be counted towards the minimum number of credits in International Development Studies courses in each degree program.

Administration 344H

Anthropology 309

Economics 311H, 312H

English 316H, 317H

Geography – Canadian Studies 380H

History 447, 4904

Politics 220

Politics – Canadian Studies 326H

Sociology 480

Spanish 326

Women's Studies – Politics 395

The single-major Honours program. At least 9 credits in International Development Studies. The program must include:

- *International Development Studies 100, 200, International Development Studies – Economics 231H and 333H*
- 1 credit from *International Development Studies 400, 422, International Development Studies – Anthropology 475H, 476H, 4971H, 4972H, International Development Studies – Canadian Studies – Politics 424, International Development Studies – Environmental & Resource Science – Politics 461H, International Development Studies – Politics 423H, International Development Studies – Sociology 470H*
- 1 additional credit in International Development Studies at the 400-level
- 4 additional credits in International Development Studies
- *Economics 101H and 102H*

The joint-major Honours program. At least 7 credits in International Development Studies, including:

- *International Development Studies 100 and 200*
- 1 credit from *International Development Studies 400, 422, International Development Studies – Anthropology 475H, 476H, 4971H, 4972H, International Development Studies – Canadian Studies – Politics 424, International Development Studies – Environmental & Resource Studies – Politics 461H, International Development Studies – Politics 423H, International Development Studies – Sociology 470H*
- 4 additional credits

The joint-major General program. At least 5 credits in International Development Studies, including:

- *International Development Studies 100 and 200*
- 3 additional credits

YEAR ABROAD PROGRAMS

These are designed primarily for Honours students in the third year of their program in the single-major or joint-major programs in International Development Studies or Anthropology, with an overall average of at least B- (70%). They are offered only in Ecuador and Ghana.

The Ecuador program consists of the following courses:

- *Spanish 250, International Development 380D, 387, 388 and International Development – Anthropology 389.*

The Ghana program consists of the following courses:

- *International Development 378, 379 and 380D, International Development – Anthropology 377.*

Please consult the academic timetable to determine which of the courses listed will be offered in 2004–2005.

International Development 100 – Human inequality in global perspective

An introduction to the basic ideas and perspectives of development analysis including issues of population growth, food, transformation of rural life, gender, the environment, urbanization and industrialization. The investigation of development and under-development proceeds from comparative and historical perspectives with illustrations from widely differing societies. *J. Clapp, D. Hall and staff*

International Development 200 – Development analysis

An examination of the strengths and limitations of the major perspectives that have informed the study of development. Selected case studies and monographs are used to illustrate theory-building, analytical models, and sound empirical research. Weekly lectures and tutorials.

Prerequisite: *International Development 100* or departmental permission. *D. R. Morrison and C. Beyers*

International Development – Anthropology 221 – Agrarian change and food production in a global context

A comparative analysis of changes in land tenure, land use and social organization of agrarian societies that are affected by the processes of commodification and globalization of food production. Ethnographic, political and economic material from the developing world will be used to illustrate these changes with a focus on the “post-colonial” experience of these societies.

Prerequisite: *International Development 100* or *Anthropology 100* or permission of instructor. *R. D. Powell and staff*

International Development – Women’s Studies 225 – Women, gender and development (see Women’s Studies)

International Development – Economics 231H – Economics of developing countries (see Economics)

International Development – History 2401H – The emergence of modern Africa before 1880 (see History)

International Development – History 2402H – The emergence of modern Africa since 1880 (see History)

International Development – History 247 – Introduction to Latin America, 1500–1990 (see History)

International Development – Anthropology 301 – African culture and society (see Anthropology) (Not offered this year.)

International Development – Anthropology 304 – Latin American culture and society (see Anthropology)

International Development – Native Studies 305 – Aboriginal community development (see Native Studies)

International Development – Anthropology 306 – South Asian culture and society (see Anthropology)

International Development – Politics 322H/FA – Global political economy

An examination of the central debates and issues in the field of global political economy within the context of the historical evolution of the world system and the globalization of economic life in the contemporary era. Prerequisite: *International Development Studies 200* or *Politics 220* or permission of instructor. D. Hall

International Development – Politics 327 – Political economy of Eastern Asia (see Political Studies)

International Development – Cultural Studies 332 – Media and development (see Cultural Studies)

International Development – Economics 333H – The economics of global interdependence (see Economics)

International Development – Environmental & Resource Studies 360 – Politics – Environment and development (see Environmental & Resource Science/Studies)

International Development 370 – Community-based research project

Students are placed in research projects with community organizations in the Peterborough area. Each placement is supervised jointly by a faculty member and a representative of a community organization. For details, see Community-Based Education program (p. 206). Prerequisite: at least 9 credits with a cumulative average of at least 75%.

International Development – Anthropology 377 – Society, culture and development in Africa

Historical dimensions and socio-cultural diversities in sub-Saharan Africa; the changing economic relationship of the area with the global economy; the politics of sub-regional conflict and continental and regional integration; trends towards democratization and the strengthening of civil society. (Offered only in Ghana.)

International Development 378 – Ghana seminar

Contemporary Ghana in the light of its historical background and its patterns of stratification, religion, ethnicity and gender. Processes of structural change, including economic policy, social and political movements. (Offered only in Ghana.)

International Development 379 – Local dynamics of change

Social, political and economic conditions that encourage or block micro-level improvements; role of women's organizations and other local institutions and their relations with local District Assemblies and other government authorities. (Offered only in Ghana.)

International Development 380D – Community development

Theory and practice of community development, with an extensive field placement. (Offered only in Ecuador and Ghana.)

International Development 385H/WI – Field course

An examination of the development experiences and strategies in a Caribbean country. Particular attention is devoted to relations with Canada. The course involves a field trip coinciding with the Winter Reading Break. Students pay a field trip fee and cover their other costs. R. D. Powell

International Development 387 – Introduction to Quichua language and culture

Prerequisite: *Spanish 250* or equivalent. (Offered only in Ecuador.)

International Development 388 – Ecuador seminar

An examination of the major features of Ecuadorian economic, political and social life, with particular attention to regional and cultural diversity. (Offered only in Ecuador.)

International Development – Anthropology 389 – Andean economy, culture and society

An examination of the structure of agrarian production systems, role of land tenure and market relations in selected Andean societies. Impact of mining and manufacturing industry, and the role of the state in shaping economic and social development. Emergence of political and ideological movements. (Offered only in Ecuador.)

International Development 390, 391H, 392H – Reading courses in International Development

Open only to students taking a major in International Development Studies, and designed to provide an opportunity for specialized studies on selected topics. Periodic tutorials. Prerequisite: Permission of the chair of the program and the instructor concerned.

International Development 395 – Special topic: DVD: Development in Video and Digital

An exploration of development and underdevelopment through documentaries, feature films and ethnographic cinema, presenting development as the lived experiences of colonialism and imperialism; labour regimes; agrarian change and politics; urbanism; struggles for nationhood; global migration; gender and industrialisation. The work of filmmakers from developing and developed countries is used. Four hours weekly. Two-hour screening plus lecture/seminar. Prerequisite: One course in the social sciences or humanities. *W. Lem*

International Development – Sociology 396H/FA – Special topic: Law, rights, and development

Analysis of the concept of rights, and its role in social and political transformation. Social justice and citizenship struggle; critical perspectives on law and power; foundations and implementation of human rights; development, the state, and multilateral agencies. Prerequisite: *International Development 200* or *Sociology 210*, or permission of instructor. *C. Beyers*

International Development 397H/WI – Special topic: Newly-industrializing countries

Historical, theoretical, and comparative literature on "late industrialization" together with case studies of selected Latin American and Asian countries. Explores the significance of state and market in development interventions; how these are shaped by politico-economic, cultural, and social factors, both domestic and transnational; and debates about democracy and development. Two hours weekly. Prerequisite: *International Development 200* or permission of the instructor. *D. R. Morrison*

International Development – History 3401H – Southern Africa in the 19th century (see History)**International Development – History 3402H – Southern Africa in the 20th century** (see History)**International Development 400 – Global and local dynamics of development**

A study of the relationship between capitalism and development. The first semester addresses the origins and nature of capitalism, with a focus on transitions to capitalism and new forms of thought and politics. The second semester examines changing labour processes, working class formation, and worker organizations. Prerequisite: *International Development 200* or permission of instructor. Open only to students in the fourth year of an Honours degree. *D. Hall and C. Huxley*

International Development 401/402D – Honours thesis

A specific scholarly project on a well-defined topic for which double credit or single credit will be given. Prerequisite: minimum A- (80%) average in International Development Studies courses.

International Development – Anthropology 407 – Politics, economy and culture (see Anthropology)**International Development 422 – Assessment of development projects**

An examination of techniques for analysing and assessing projects for industrial, rural and social development, and of selected case studies. Case studies will include Canadian projects for development assistance in third world countries. Open only to students in the fourth year of the Honours degree in International Development Studies. Lectures and weekly seminars. Prerequisite: *International Development 200*. Permission of instructor or chair required before registration. Enrolment limit of 14. *C. Beyers*

International Development – Politics 423H/FA – Global civil society

An examination of the reactions by agents of "global civil society" to the process of economic globalization and its impact on the developing world. Two-hour seminar weekly. Prerequisite: *International Development 200*, *Politics 220*, or permission of the instructor. *Staff*

International Development – Canadian Studies – Politics 424 – Canada, globalization and international development

Canada's socio-cultural diversity and place within the global political economy, and its North-South policies and practices. Explores immigration and multiculturalism, foreign policy, human security, peacekeeping, development assistance (including gender, democratization, and human rights), trade and the roles of Canadian business and civil society in international development. Two hours weekly. Prerequisite: One of *International Development 200*, *Canadian Studies – Environmental & Resource Studies – Geography 204*, *Politics 220* or permission of instructor. Open only to students in fourth year. Excludes 424H. *D. R. Morrison*

International Development – Politics 425H/FA – Topics in global political economy: Money and finance

An examination of contemporary debates concerning the relationship between global inequality and the global financial order including issues such as the politics of international debt, sovereign bankruptcy, capital flight, international financial regulation and crises, politics of exchange rate regimes; dollarization and regional currency blocs. Prerequisite: *International Development Studies – Politics 322H* or permission of the instructor. *Staff*

International Development – Politics 427H – Democracy and the global order (see Political Studies)

International Development – Politics – Environmental & Resource Studies 461H – Global environmental policy (see Environmental & Resource Science/Studies)

International Development – Sociology 470H/WI – Religion and social movements

An examination of the religious movements within the Catholic tradition generated by social upheaval in contemporary Latin America, with particular attention given to new forms of religious organization and theology, together with the revitalization of popular religion. (see Sociology)

International Development – Anthropology 475H/WI – Perspectives on ethnicity

Examination of ethnic consciousness and identity formation through theoretical and ethnographic case studies in a variety of settings. Identity construction in relation to process of development. Articulation and comparison of ethnicity with gender, class, kinship, nationalism and other markers of social and cultural difference. Prerequisite: *Anthropology 200* or *International Development 200* or permission of instructor. *J. Solway*

International Development – Anthropology 476H/WI – Family and modernity

An examination of the dynamics of the family and its relation to development. Themes considered include historical change in family form, marriage patterns, gender relations and social hierarchy; the role of kin and family in economic change; "fictive" kinship and "fabricating" a family; and "modern kinship dilemmas." Prerequisite: *International Development 200* or *Anthropology 200* or by permission of instructor. *J. Solway*

International Development 490, 491H, 492H – Reading courses in International Development

Open to students in the fourth year of the Honours program in International Development Studies. Periodic tutorials. Prerequisite: Permission of the chair of the program and the instructor concerned.

International Development – Anthropology 4971H/FA – Western Europe (I) – People and place

Western Europe has formed the empirical basis for the grand theories of "modernization" and "development." This course seeks to discover, through case studies and ethnography, whether the many views of what constitutes "modernity" actually reflect the lived experiences of the many peoples ("majority" and "exceptions") who make up Western Europe. Prerequisite: *International Development 200* or *Anthropology 200* or permission of instructor. (Not offered this year)

International Development Studies – Anthropology 4972H/WI – Western Europe (II) – Movements and ideas

In this course we study streams of thought in contemporary Western Europe in relationship to present-day movements, currents and crises in Europe. We will examine the relationship between the development of critical ideas about society, economy and culture, and the changing contours of society itself. Prerequisite: *International Development 200* or *Anthropology 200* or permission of instructor. (Not offered this year.)

International Studies

See Global Studies

Latin

See Ancient History & Classics

Mathematics

Telephone: (705) 748-1011 ext. 1531

E-mail: math@trentu.ca

Fax: (705) 748-1630

Web: www.trentu.ca/mathematics

Professor and Chair of the Department

B. Zhou, B.Sc. (Shanghai), Ph.D. (South Carolina)

Professors

E. A. Maxwell, M.Sc., Ph.D. (Toronto) (*on leave 2004-2005*); **D. G. Poole**, B.Sc. (Acadia), M.Sc., Ph.D. (McMaster); **B. Zhou**, B.Sc. (Shanghai), Ph.D. (South Carolina)

Associate Professors

K. Abdella, B.Sc. (Trent), M.Sc. (Alberta), Ph.D. (Western Ontario); **S. Bilaniuk**, B.Sc. (Toronto), A.M., Ph.D. (Dartmouth); **R. Yassawi**, B.Sc. (London School of Economics), M.Sc., Ph.D. (McGill) (*on leave 2004-2005*)

Assistant Professors

M. Pivato, B.Sc. (Alberta), Ph.D. (Toronto) (*on leave Winter session*)

Lecturer

M. Pollanen, B.Sc. (Carleton), M.Sc. (Toronto)

Professors Emeriti

I. C. Chakravarty, M.Sc. (Gauhati), Ph.D. (Saskatchewan); **G. F. Hamilton**, B.A.Sc., M.A., Ph.D. (Toronto), P. Eng.; **T. N. Murphy**, B.Sc. (Liverpool)

Associated Faculty

Computer Science/Studies: **W. Feng**, M.Sc. (Shaanxi), Ph.D. (Glasgow)

The curriculum in Mathematics has been designed to accommodate a wide variety of interests in both pure and applied mathematics. All students in the Mathematics program must take core courses in calculus and algebra. Most of the remaining courses have been divided into three categories corresponding to the major areas of Mathematics. The intent is to provide students with both breadth and depth in Mathematics while allowing them to pursue those areas that interest them.

Notes

- C- (60%) or higher in a Mathematics course at the 100-level is a prerequisite for all upper-level Mathematics courses. For specific prerequisites, see individual course descriptions.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in Mathematics, if they have met the requirements for the joint-major General degree (see below).
- The department maintains a website with up-to-date information at www.trentu.ca/mathematics

BACHELOR OF SCIENCE PROGRAM IN MATHEMATICS

- see p. 22 for requirements which apply to all undergraduate degree programs.
- *Mathematics 110* is the required introductory course for the B.Sc. in Mathematics.
- C- (60%) or higher is required in a course if it is to serve as a prerequisite for another course in the program.
- The following core courses are required of all students in the Mathematics program: *Mathematics 110, 135H, 201H, 202H and 235H.*
- Most other courses in Mathematics are divided into three categories. Some courses appear in more than one category, but no course may fulfil more than one category requirement. For specific stream requirements for the major, see below.

A Analysis and Topology	B Algebra, Geometry, and Discrete Math	C Modelling and Statistics
205H	220H	155H
207H	226H	205H
305H	260	207H
306H	322	256H
308H	326H	305H
309H	330	308H
310H	415H	311H
406H	416H	341
407H	426H	356H
436H	432H	412H
437H	461H	413H
471H	462H	456H
472H		457H

- The following courses do not fulfil a category requirement: *Mathematics 280, 380, 390, 391H, 392H, 393H, 394H, 490, 491H, 492H, 493H, 494H and 495.*
- Final decisions on fourth year courses are dependent on student interest and availability of instructors
- An information meeting concerning upper level courses in Mathematics will be arranged in the Winter session.

The single-major Honours program. At least 11 credits in Mathematics, including:

- *Mathematics 110, 135H, 201H, 202H and 235H*
- 2 credits each from two of categories A, B and C and 0.5 credit from the remaining category
- 3.5 additional credits
- at least 6 of the credits in Mathematics beyond the 200-level, including at least 2 at the 400-level

The joint-major Honours program. At least 7.5 credits in Mathematics, including:

- *Mathematics 110, 135H, 201H, 202H and 235H*
- 1 credit each from two of categories A, B and C and 0.5 credit from the remaining category
- 2 additional credits
- at least 3 of the credits in Mathematics beyond the 200-level, including at least 1 at the 400-level

The single-major General program. At least 6 credits in Mathematics, including:

- *Mathematics 110, 135H, 201H and 202H and 235H*
- 0.5 credit each from 2 of categories A, B and C
- 2 additional credits
- at least 1 of the credits in Mathematics beyond the 200-level

The joint-major General program. At least 5 credits in Mathematics, including:

- *Mathematics 110, 135H, 201H and 202H and 235H*
- 2 additional credits from categories A, B or C
- at least 1 of the credits in Mathematics beyond the 200-level

Please consult the academic timetable to determine which of the courses listed will be offered in 2004-2005. Course instructors are subject to change.

Mathematics 105H/FA/WI – Applied calculus

An introduction to the methods and applications of calculus. Derivatives, exponential and logarithmic functions, optimization problems, related rates, integration, partial derivatives, differential equations. Selected applications from the natural and social sciences. Prerequisite: A Grade 12 U or U/C or OAC mathematics course. Not available to students enrolled in or with credit for *Mathematics 110*. Not for credit towards a major in Mathematics. Three hour lecture and one-hour workshop weekly.

Mathematics 110 – Calculus I: Calculus of one variable

An examination of the concepts and techniques of calculus, with applications to other areas of mathematics and the physical and social sciences. Prerequisite: Grade 12 Advanced Functions and Introductory Calculus or OAC Calculus with at least 60%. Three lectures and one seminar weekly. *S. Bilaniuk and staff*

Mathematics 135H/FA/WI – Linear algebra I: Matrix algebra

Vectors, systems of linear equations, matrices, determinants, linear transformations, eigenvalues and eigenvectors. Prerequisite: A Grade 12 U or U/C or OAC mathematics course with at least 60%. Excludes *Mathematics 130*. Three hours lecture and one hour workshop weekly. *D. Poole*

Mathematics 150 – A non-calculus-based introduction to probability and statistical methods

Data summary, elementary probability, estimation, hypothesis testing, comparative methods, analysis of variance, regression, nonparametric methods, introduction to elementary applications of statistical computing. This course uses high school mathematics as a foundation and involves the use of computers. Not credited toward Mathematics major requirements, nor available to students enrolled in, or with credit for *Mathematics – Statistics 251H* or *Mathematics 110*. Three lectures weekly, one-hour problems session fortnightly.

Mathematics 155H/FA/WI – Introduction to probability

Probability, random variables, probability distributions. Not available to students with credit for *Mathematics – Statistics 251H*. Co-requisite: *Mathematics 105H* or *Mathematics 110* taken previously or concurrently. Three one-hour lectures and one hour workshop fortnightly.

Mathematics 201H/FA – Calculus II: Calculus of several variables

Multivariable functions, curves and surfaces in two and three dimensions. Partial differentiation and applications. Multiple integrals. Prerequisite: *Mathematics 110*. Pre- or co-requisite: Grade 12U Algebra, Geometry and Discrete Mathematics or (highly recommended) *Mathematics 135H*. Three lectures and one tutorial weekly.

Mathematics 202H/WI – Calculus III: Vector calculus

Parametric curves and surfaces, vector functions and fields. Line integrals, Green's Theorem. Surface integrals, curl and divergence, Stokes' and Divergence Theorems. Prerequisite: *Mathematics 201H*. Three lectures and one tutorial weekly.

Mathematics – Physics 205H/FA – Ordinary differential equations

First order equations; qualitative and numerical methods. Second order linear equations. Applications to physical and biological models. Laplace transforms. Power series solutions. Prerequisite: *Mathematics 110*. Co-requisite: *Mathematics 200*. Recommended: *Mathematics 130* or *135H*. Three lectures and one tutorial weekly. *M. Pivato*

Mathematics – Computer Science 207H/WI – Introduction to numerical and computational methods

Error analysis, non-linear equations, linear systems, interpolation methods, numerical differentiation and integration and initial value problems. Prerequisite: *Mathematics 105H* or *110*. Three lectures and one tutorial weekly.

Mathematics 220H/FA – Introduction to pure mathematics

Introduction to mathematical abstraction, mathematical language and mathematical proofs. Logic and proof techniques. Basic number theory: prime factorization, greatest common divisors and lowest common multiples; modular arithmetic. Sets and set operations. Functions: injections, surjections, and bijections. Cardinality: Cantor's diagonal argument; transfinite arithmetic. Combinatorics: factorials, binomial coefficients, and counting arguments. Complex numbers: arithmetic and geometry. Three hours of lectures weekly. Prerequisite: A grade 12U mathematics course. Recommended: *Mathematics 135H*.

Mathematics 226H/FA – Geometry I: Euclidean geometry

Elements of Euclidean geometry stressing links to modern mathematical methods. Geometric transformations and symmetry. Recommended for Education students. Prerequisite: Either *Mathematics 105H* or *110* (with OAC Algebra/Geometry recommended) or *135H*. Two lectures and one tutorial weekly. *M. Pivato*

Mathematics 235H/WI – Linear algebra II: Vector spaces

Vector spaces, basis and dimension, inner product spaces, orthogonality, linear transformations, diagonalization, quadratic forms, least squares, the singular value decomposition. Three hours lecture and one hour tutorial weekly. Prerequisite: *Mathematics 135H*. Excludes *Mathematics 130*. D. Poole

Mathematics 256H/FA – Introduction to statistical inference

Introduction to mathematical statistics: Methods of point estimation, confidence intervals, hypotheses testing, comparative inferences, nonparametric methods. Assumes a background in probability and calculus. Prerequisite: *Mathematics 155H*. Three hours of lectures weekly.

Mathematics – Computer Science 260 – Discrete structures

Mathematics related to computer science including propositional logic, recursive functions, combinatorics, graphs and networks, Boolean algebras. Applications to languages, analysis of algorithms, optimization problems, coding theory and circuit design. Prerequisite: *Mathematics 110* or *130* or *135H*; or *Computer Science 102H* together with one Grade 12 U or U/C or OAC credit in Mathematics. OAC Finite Mathematics recommended. Three hours weekly. M. Pollanen

Mathematics – Science 280 – Mathematics for Teacher Education

A course in mathematics and mathematical thinking for prospective school teachers. Number systems and counting, graphs and networks, probability and statistics, measurement and growth, symmetry, computers and mathematics. Three hours weekly. Not available to students enrolled in or with credit for any of *Mathematics 110*, *135H* or *Mathematics – Computer Science 260* or their equivalents. Not for credit towards any major in Mathematics. Permission of the instructor required.

Mathematics – Physics 305H/FA – Partial differential equations

An introduction to methods for the solution of partial differential equations. Fourier analysis. Prerequisite: *Mathematics 205H*. Co-requisite: *Mathematics 201H*. Strongly recommended: *Mathematics 135H*. Three hours weekly. M. Pivato

Mathematics 307H/WI – Complex analysis

Functions of a complex variable, analytic functions, complex integrals, Cauchy integral theorems, Taylor series, Laurent series, residue calculus. Co-requisite: *Mathematics 200*. Two lectures and one tutorial weekly. M. Pollanen

Mathematics – Physics 308H/WI – Methods of applied mathematics

Differential equations in applied mathematics, including Bessel, Legendre, hypergeometric, Laguerre, Hermite, Chebyshev, etc. Series and numerical solutions. Properties of the special functions arising from these equations. Prerequisite: *Mathematics – Physics 205H*. K. Abdella

Mathematics 309H/FA – Analysis I: Introduction to analysis

The real number system. Limits. Continuity. Differentiability: Mean-value theorem. Convergence of sequences and series. Uniform convergence. Prerequisite: *Mathematics 110*. Co-requisite: *Mathematics 201H*. Three hours weekly. S. Bilaniuk

Mathematics 310H/WI – Topology I: Metric spaces

Limits and continuity. Completeness, compactness, the Heine-Borel theorem. Connectedness. Prerequisite: *Mathematics 206H* or *309H*. Two lectures and one tutorial weekly. I. Rada

Mathematics – Physics 313H/FA – Classical mechanics (see Physics)**Mathematics – Physics 314H/WI – Advanced classical mechanics (see Physics)****Mathematics 322 – Number theory and related topics in algebra and analysis**

Prerequisite: *Mathematics 110*, and *130* or *235H*. (Not offered this year.)

Mathematics 326H/WI – Geometry II: Projective and non-Euclidean geometrics

Elements of projective and non-Euclidean geometry, including an introduction to axiomatic systems. Prerequisite: *Mathematics 135H* or permission of instructor.

Mathematics 330 – Algebra III: Groups, rings and fields

An introduction to abstract algebraic structures. Prerequisite: *Mathematics 235H*. Recommended: Experience with proofs and mathematical abstraction. Three lectures weekly. M. Pollanen

Mathematics – Computer Science 341 – Linear and discrete optimization

Introduction to the concepts, techniques and applications of linear programming and discrete optimization. Topics include the simplex method, dynamic programming, duality, game theory, transportation problems, assignment problems, matchings in graphs, network flow theory and combinatorial optimization with emphasis on integer programming. Prerequisite: *Mathematics 130* or *135H* and *Mathematics – Computer Science 260*. M. Pollanen

Mathematics 356H/WI – Linear statistical models

Linear regression and correlation, multiple regression, analysis of variance and experimental designs. Assumes a background in probability and uses introductory linear algebra. Prerequisite: *Mathematics 256H*. Strongly recommended: *Mathematics 135H*. Three hours of lectures weekly. (Offered in alternate years, but not this year.)

Mathematics 357H/WI – Introduction to stochastic processes

This course covers a variety of important models used in modeling of random events that evolve in time. These include Markov chains (both discrete and continuous), Poisson processes and queues. The rich diversity of applications of the subject is illustrated through varied examples. Prerequisite: *Mathematics 155H*. Three hours of lectures weekly. (Offered this year and in alternate years.) Staff

Mathematics – Science 380 – History of mathematics

A study of the major currents of mathematical thought from ancient to modern times. Prerequisite: *Mathematics 110* and *235H* or *Mathematics 110* and permission of instructor. Second-year students wishing to take the course must have permission of the instructor. Three hours weekly. S. Bilaniuk

Mathematics 390 – Reading-seminar course

Details may be obtained by consulting the department.

Mathematics 391H, 392H, 393H, 394H – Reading-seminar courses

Details may be obtained by consulting the department.

Mathematics 406H – Analysis III: Measure and integration

Riemann and Lebesgue measure, integration. Prerequisite: *Mathematics 206H, 310H*

Mathematics 407H – Analysis IV: Topics in complex analysis

Prerequisite: *Mathematics 206H* and *306H*.

Mathematics 412H/FA – Mathematical modeling I

This course provides an introduction to the mathematical modeling process and applies this process to simple mathematical modeling problems arising from a variety of application areas in science and engineering. Mathematical modeling techniques, such as differential equations, dimensional analysis, discrete systems and numerical methods along with computer aids will be utilized. Prerequisite: *Mathematics – Physics 205H*. Two hours of lectures weekly. K. Abdella

Mathematics 413H/WI – Mathematical modeling II

This course further develops the mathematical modelling techniques introduced in *Mathematics 412H*. Emphasis will be placed on partial differential equation models such as diffusion processes, wave motions and fluid flows. Prerequisite: *Mathematics 412H* and one of *Mathematics – Physics 305H*, or *Mathematics – Physics 308H*. Two hours of lectures weekly. K. Abdella

Mathematics – Computer Science 415H – Mathematical logic

An introduction to the syntax and semantics of propositional and first-order logics through the Soundness, Completeness and Compactness Theorems. Prerequisite: *Mathematics – Computer Science 260* or *Mathematics 330* or permission of instructor. S. Bilaniuk

Mathematics – Computer Science 416H – Computability

An introduction to computability via Turing machines and recursive functions, followed either by applications to the Incompleteness Theorem or by an introduction to complexity theory. Prerequisite: *Computer Science 305H* or *Mathematics 330* or *Mathematics – Computer Science 415H* or permission of instructor.

Mathematics 426H – Geometry III: Topics in geometry

Prerequisite: *Mathematics 225* or *226H* or *326H*.

Mathematics 431H – Algebra IV: Galois theory

Extension fields and Galois groups. Prerequisite: *Mathematics 330*.

Mathematics 432H – Algebra V: Topics in algebra

Prerequisite: *Mathematics 330*.

Mathematics 436H – Topology II: General topology

Prerequisite: *Mathematics 310H*.

Mathematics 437H – Topology III: Topics in topology

Prerequisite: *Mathematics 310H*.

Mathematics 456H – Topics in Statistics

Prerequisite: *Mathematics 356H*.

Mathematics 457H – Topics in probability: A second course in stochastic processes

Prerequisite: *Mathematics 357H*.

Mathematics 461H/FA – Introduction to graph theory

An introduction to graph theory with emphasis on both theory and applications and algorithms related to computer science, operation research and management science. Prerequisite: *Mathematics – Computer Science 260* or permission of instructor. Two lectures and one tutorial weekly. *B. Zhou*

Mathematics 462H/WI – Introduction to combinatorics

An introduction to combinatorics. The topics include counting techniques, generating functions and block design. Prerequisite: *Mathematics – Computer Science 260*. Recommended: *Mathematics 330*. Two lectures and one tutorial weekly. *B. Zhou*

Mathematics 471H/FA – Chaos, symbolic dynamics, fractals

An introduction to discrete dynamical systems. Periodicity, attraction. Parametrized families of functions, bifurcation, chaos. Symbolic dynamics, conjugacy, Cantor Sets. Deterministic fractals, fractal dimension, Lyapunov exponents, entropy. Prerequisite: *Mathematics 206H, Mathematics 309H, Mathematics 310H*, or permission of the instructor. Three hours of lectures weekly.

Mathematics 472H/WI – Fractals and complex dynamics

Discrete two-dimensional linear systems, The stable and unstable manifolds. Symbolic dynamics. The horseshoe map, hyperbolicity. The Poincaré-Bendixson Theorem. Complex dynamics, Julia Sets, Mandelbrot Sets. Prerequisite: *Mathematics 471H*, or permission of the instructor. Three hours of lectures weekly.

Mathematics 490 – Reading-seminar course

Details may be obtained by consulting the department.

Mathematics 491H, 492H, 493H, 494H – Reading-seminar courses

Details may be obtained by consulting the department.

Mathematics 495 – Special topics

Details may be obtained by consulting the department.

Modern Languages & Literatures

Telephone: (705) 748-1011 ext. 1394

E-mail: modernlang@trentu.ca

Web: www.trentu.ca/modernlanguages

Chair of the Department

R. Hagman, B.A., PhD. (Columbia)

The department of Modern Languages & Literatures offers programs in French, German, and Hispanic Studies, as well as an Emphasis in Linguistics. These programs enable students to begin or deepen their knowledge of a second language and then explore great works of literature in their original tongue. Language courses are offered at all levels from introductory to advanced, and strive to develop competence in understanding, speaking, reading and writing. Literature courses give students a broad acquaintance with the variety of works written in the language, while helping them develop the critical abilities necessary for their proper appreciation. It is the department's goal to give students completing its programs an understanding and appreciation of the culture and civilization of the peoples who speak the languages it teaches. Toward this end, year-abroad programs are offered for all modern languages taught at Trent, and are recommended for all students majoring in one or more of these languages.

Modern Languages 101 – Introduction to linguistics

An overview of the many approaches to the study of human languages. Topics covered include: the descriptive study of words, sentences and sounds; the role of language in society; the ways languages change over time; the development of writing systems; language learning; the brain and language. Two one-hour lectures per week and one one-hour seminar fortnightly.

R. Hagman

Modern Languages – Anthropology 201H/FA – Phonetics

An overview of articulatory and instrumental phonetics, including the mechanics of speech production, the accurate transcription of speech in any language, and the use of instruments to study the physical nature of speech sounds. Students will learn all characters and values of the International Phonetic Alphabet, an indispensable tool for linguistic study and research.

Prerequisite: *Modern Languages 101*. Two-hour lecture/ seminar weekly. Excludes *Anthropology 432H*. R. Hagman

Modern Languages – Anthropology 202H/WI – Historical linguistics

An overview of the field of historical linguistics with an emphasis on the Indo-European languages. Students will be exposed to the principles and methods of historical research on languages, including topics related to language change and the reconstruction of extinct languages from their known daughter languages. Prerequisite: *Modern Languages 101*. Two-hour lecture/seminar weekly. Excludes *Anthropology 330*. R. Hagman

Modern Languages 302H/FA – Romance linguistics

A survey of the origin and diversification of the Romance languages, including: Spanish, Portuguese, Catalan, French, Occitan, Italian, Sardinian, Rhaeto-Romance, and Rumanian. Phonological and grammatical diversification, socio-political context, the emergence of literary languages, and the birth of literary traditions. Prerequisite: *Modern Languages 101*. Two-hour lecture/seminar weekly. R. Hagman

Modern Languages 303H/WI – Germanic linguistics

A survey of the origin and diversification of the Germanic family of languages, including the earliest forms of: Gothic, Norse, Saxon, English, Frisian, Low Franconian, High German and their modern descendants. Phonological and grammatical diversification, socio-political context, the emergence of literary languages, and the birth of literary traditions. Prerequisite: *Modern Languages 101*. Two-hour lecture/seminar weekly. R. Hagman

FRENCH STUDIES SECTION

Web: www.trentu.ca/frenchstudies

Associate Professors

H. Benbaruk, B.A. (Baldwin-Wallace), M.A. (McGill); **Y. Thomas**, B.A. (UQAM), M.A., Ph.D. (Montréal)

Assistant Professors

S. Bérard, M.A., Ph.D. (UQAM); **C. Sagarra**, M.A. (Université de Carleton), Ph.D. (Université d'Ottawa).

Professor Emeritus

P. Royle, M.A. (Oxford), Ph.D. (Natal)

Dedicated to small group teaching, French studies at Trent offers an array of courses on French language, Francophone cultures and literatures and linguistics. As a central feature, the year-abroad program in Nantes (France) gives students majoring in French an opportunity to develop and refine their knowledge of French in a European context.

Notes

- A 100-level course in French studies or a successful placement interview is a prerequisite for all upper-year courses in French studies. See individual course descriptions for details.
- C- (60%) or higher is required in any course if it is to serve as a prerequisite for another course in the program.
- Courses at the 400-level are normally limited to students in the fourth year of the Honours French program.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in French Studies, if they have met the requirements for the joint-major General degree (see below).

- Students participating in the Year Abroad Program in French during their third year of study may take *French 325* or *383* in their fourth year as fourth-year courses (*French 426* or *483*). This will involve added course requirements and a higher expected level of performance than students taking these courses in their regular form. Students must apply for this option to the chair of the department of Modern Languages and Literatures upon their return from Nantes.

BACHELOR OF ARTS PROGRAM IN FRENCH STUDIES

- see p. 22 for requirements which apply to all undergraduate degree programs.
- *French 100*, *101H* and *103H* are not credited towards the major requirements for French Studies.
- For the Specialization in Québec Studies, see below.

The single-major Honours program. At least 10 credits in French Studies, including:

- *French 110* and *245*
- *French 205* or *215*
- at least 1 of *French 317*, *318*, *319* or *320*
- *French 325* or *383*
- 4 credits at the 400-level
- 1 additional credit.

The joint-major Honours program. At least 8 credits in French Studies, including:

- *French 110* and *245*
- *French 205* or *215*
- at least 1 of *French 317*, *318*, *319* or *320*
- *French 325* or *383*
- 2 credits at the 400-level
- 1 additional credit.

The single-major General program. At least 6 credits in French Studies, including:

- *French 110* and *245*
- *French 205* or *215*
- at least 1 of *French 317*, *318*, *319* or *320*
- *French 325* or *383*
- 1 additional credit.

The joint-major General program. At least 5 credits in French Studies, including:

- *French 110* and *245*
- *French 205* or *215*
- at least 1 of *French 317*, *318*, *319* or *320*
- *French 325* or *383*

SPECIALIZATION IN QUÉBEC STUDIES

A Specialization in Québec Studies is available to students with three or more Québec credits (*French 245*, *325*, *383* or any 400-level course on a Québec subject). The transcripts of students graduating with a degree in French Studies, who have successfully completed the requirements of the Specialization, will contain the notation "with a Specialization in Québec Studies."

YEAR ABROAD PROGRAM

Students in the French Studies program may apply to spend their second or third year of studies abroad, for which they will receive Trent credits. The Year Abroad program is offered at the University of Nantes, France. In order to be eligible, students must have successfully completed *French 110* and have achieved a minimum average of B- (70%) on all French courses at Trent (or equivalent). Honours candidates are especially encouraged to spend a year at Nantes. For further details, please consult the chair of Modern Languages.

Please consult the academic timetable to determine which of the courses listed below will be offered in 2004-2005.

French 100 – Elementary French

An intensive course in oral and written French for students who do not have Ontario Grade 12 French U/M or its equivalent. This course will rely on textual as well as on audio-visual and electronic support material. Four hours weekly. Not credited toward French Major requirements. (May not be taken concurrently with or subsequent to any other French course.) *Y. Thomas and staff*

French 105 – Oral French

This course will focus on developing functional oral skills through the use of multi-media resources and different types of communicative situations. One three-hour lab weekly. Prerequisite: OAC or grade 12 French U/M. Not credited towards French major requirements. (May not be taken concurrently with or following *French 110*) Students judged by the instructor to possess native or native-like control of oral French may not receive credit for this course. Excludes *French 101H* and *French 201H*. *C. Sagarra and staff*

French 110 — Introduction to French studies

First course required of all French majors. Study of literary genre and textual analysis using works from both French and Québec literatures. Complete review of French grammar. One-hour lecture weekly, one-hour literature seminar weekly, two-hour grammar/writing workshop weekly. Prerequisite: OAC or grade 12 French U/M. *S. Bérard, Y. Thomas, C. Sagarra*

French 205 – French composition

Exploring the conventions of style and form in written French (reports, argumentative writing, fiction) through writing and translation exercises. Complete review of grammar. Two seminars weekly and one conversation period weekly. Credited toward French major requirements. Prerequisite: a placement interview or a mark of 60% or better in *French 110*. Excludes *French 103H* and *French 203H*. *H. Benbaruk*

French 215 — La linguistique française par la littérature

Introduction to the fundamental elements of French syntax through French literary works. Fundamental elements of French phonology will also be explored. Three hours in multimedia lab weekly. Prerequisite: *French 110*. *C. Sagarra*

French 245 – Civilisations française et québécoise

A survey of the social and cultural histories of France and Québec from the seventeenth century to the present. Two hours weekly. This course is required of all students majoring in French. Prerequisite: *French 110*.

French 305 – Traduction

Theory and practice of the techniques of translation. Two hours weekly. Prerequisite: minimum 60% in *French 110* or *205* or *French 103H* and *203H* or permission of the instructor. *H. Benbaruk*

French 317 – La vie littéraire française au 17e siècle

"Le Grand Siècle" and the culmination of Classical Theatre. Study of Baroque and Classicism in theatre, poetry, novels and epistolary art. Two hours weekly. Pre- or co-requisite: *French 245*. *H. Benbaruk*

French 318 – La vie littéraire française au 18e siècle

The "Siècle des Lumières" is marked by the renewal of philosophy and political revolution. This course will examine representations of these movements in novels, poetry and theatre of the XVIII century. Two hours weekly. Pre- or co-requisite: *French 245*.

French 319 – La vie littéraire au 19e siècle

Literary life in the 19th century from the Romantic period to the Naturalist project. Two hours weekly. Pre- or co-requisite: *French 245*.

French 320 – La vie littéraire française au 20e siècle

Modern and contemporary trends in literature: Poetry, novels, theatre. Two hours weekly. Pre- or co-requisite: *French 245*.

French – Canadian Studies 325 – Théâtre et poésie du Québec

A survey of the beginnings and evolution of Québec theatre and poetry, concentrating on modern and contemporary works. Two hours weekly. Pre- or co-requisite: *French 245*.

French 331 – La pensée française

Introduction to 18th century French Philosophers. (Offered only in Nantes.)

French 351 – La civilisation française

A survey of the history of France from pre-historical times to the present. (Offered only in Nantes.)

French – Canadian Studies 383 – Le roman québécois

A survey of the Québec novel, from the "roman de la terre" to the Quiet Revolution and the many facets of contemporary fiction. Two hours weekly. Pre- or co-requisite: *French 245*.

S. Bérard

French 401 – Initiation à la recherche littéraire

Supervised research. Single credit course. 8,000 words thesis. Excludes *French 402D*. Two hours weekly. Candidates must submit a written proposal to the chair of French Studies before May 1.

French 402D – Recherche littéraire avancée

Supervised research. Double credit course. 15,000-word thesis. Excludes *French 401*. Three hours weekly. Candidates must submit a written proposal to the chair of French Studies before May 1.

French 405 – La stylistique par la littérature

Advanced studies in semantics and stylistics through contemporary literary works in French and Francophone literature. Three hours weekly. *C. Sagarra*

French 420 – La critique littéraire

This course will examine the various methods of literary criticism and will study relevant critical texts by French writers and literary critics.

French – Canadian Studies 426 – Étude approfondie du théâtre et de la poésie du Québec

See *French 325*. Open only to students who have participated in the Year Abroad Program in French during the preceding academic year. Excludes *French 325*.

French 450 – Montréal

Omniprésente dans la littérature et les arts québécois, Montréal est un territoire que les écrivains-es façonnent, un personnage avec lequel ils-elles interagissent; un interlocuteur. Ce cours portera sur les représentations de Montréal dans la culture québécoise, mais aussi sur Montréal comme lieu programmatique, comme agent créateur. *S. Bérard*

French 460 – L'écriture de soi au féminin

Étude de l'intimité dans certains écrits de femmes au 20^e siècle. Two hours weekly.

H. Benbaruk

French – Canadian Studies 483 – Étude approfondie du roman québécois

See *French 383*. Open only to students who have participated in the Year Abroad Program in French during the preceding academic year. Excludes *French 383*. *S. Bérard*

French 495 – Promenades et voyages dans la littérature du 19^e siècle

Ce cours se propose d'étudier un imaginaire de l'exploration au 19^e siècle. À partir de romans et de proses diverses, cette étude portera tout autant sur des errances ou flâneries urbaines, que sur des voyages au long cours en des pays lointains ou en des terres inconnues. *Y. Thomas*

GERMAN STUDIES SECTION**Associate Professor**

J. C. Fewster, M.A. (Manchester) (on leave 2004-2005); **A. A. Krüger**, Staatsexamen (München)

Professors Emeriti

G. Baumgaertel, M.A. (Brown), Dr. Phil. (Tübingen); **D. D. Stewart**, M.A., Ph.D. (Toronto)

German Studies includes three major areas: the study of language; the study, in English, of the cultural heritage of the German-speaking countries; and, more specifically, the study, in the original, of the great literary heritage of the German-speaking world. This comprehensive approach to German Studies provides the most balanced approach to the subject. German Studies in its different aspects can be of great benefit to students in such different disciplines as Business Administration (world of business and finance), Economics, Political Studies, Philosophy, Cultural Studies, Social and Natural Sciences. To complement and enhance our German Studies at Trent, we offer the only Canadian year-abroad program in Germany: the "Canadian Year in Freiburg." Students can study with a Canadian professor who will facilitate their integration and their studies at the University of Freiburg.

Notes

- Students who have passed a placement test may enrol in *German 205*.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in German Studies, if they have met the requirements for the joint-major General degree (see below).

BACHELOR OF ARTS PROGRAM IN GERMAN STUDIES

- see p. 22 for requirements which apply to all undergraduate degree programs.
- A joint-major Honours degree is an option for students who successfully complete an approved course of study in the Year Abroad program in Freiburg. For further details consult the Associate Chair of German Studies.
- Two half credits in courses taught in English (*German 232H, 233H, 240H*) may be credited towards the major requirements for German Studies.
- *German 100* is not credited towards the major requirements for German Studies.
- Students in *German 100* and *105* are strongly encouraged to participate in the "Grammar Workshop for Language Students" offered by the Academic Skills Centre. Students will receive bonus points for perfect attendance.

The single-major General program. At least 6 credits in German Studies, including:

- *German 105, 205H, 310H, 314H* and *360H*
- 3 additional credits

The joint-major General program. At least 5 credits in German Studies, including:

- *German 105* and *205H*
- 1 credit from *German 310H, 314H* or *360H*
- 2.5 additional credits

YEAR ABROAD PROGRAM

Students may apply to spend their second or third year of studies abroad, for which they will receive Trent credits. The year abroad program (the "Canadian Year in Freiburg") is offered at the University of Freiburg, Germany. In order to be eligible students must achieve a minimum average of B- (70%) in all courses at Trent (or equivalents) and B- (70%) or higher in *German 105* (or equivalent). Enrolment is limited to seven students from Trent. For further details, please consult the chair of Modern Languages (german@trentu.ca).

In 2004-2005, the Resident Director of the "Canadian Year in Freiburg" will offer 2.5 credits at the 200-level and 300-level. Among them will be intermediate and advanced courses in language, German cultural studies and literature.

Please consult the academic timetable to determine which of the courses listed below will be offered in 2004-2005.

German 100

Designed for students with little or no knowledge of German. This course provides an introduction to spoken and written German with an integrated computer-assisted language learning program, language laboratory as well as an introduction to present-day Germany. Four lecture/seminars weekly. Not open to students with OAC German or equivalent. Not credited toward a major in German. *Staff*

German 105

Intermediate German language course with comprehensive grammar review, intensive language practice and computer-assisted language learning program. Introduction to German literature and culture in the Winter session. Prerequisite: *German 100*, Grade 12 German, OAC German or equivalent. Four lecture-seminars, one laboratory weekly. *A. A. Krüger*

German 205H/FA – Advanced language practice I

Written and oral practice. Prerequisite: *German 105* or permission of the department. Three lectures/seminars weekly. *Staff*

German 206H/WI – German literature and thought from Nietzsche to Brecht

Modern writers and events. Prerequisite: *German 205H* or permission of the department. One lecture, two seminars weekly. *Staff*

German 220 – Modern German literature in translation (see *German 221H* and *222H*)
(Not offered this year.)**German 221H – German literature of the 19th century in translation**

This is an optional credit for English majors. (Not offered this year.)

German 222H – German literature of the 20th century in translation

This is an optional credit for English majors. (Not offered this year.)

German 231 – German civilization (see *German 232H* and *233H*)**German 232H/FA – German civilization I**

Taught in English. A survey of the culture and society of German-speaking countries from their origins to the French Revolution, including literature, music, art, architecture and political and scientific history, with the use of films, slides and music tapes. May be counted towards a major in German (see Notes). Two lectures, one seminar weekly. *A. A. Krüger*

German 233H/WI – German civilization II

Taught in English. A survey of the culture and society of German-speaking countries from the French Revolution to the present, including literature, music, art, architecture and political and scientific history, with the use of films, slides and music tapes. *German 232H* desirable. May be counted towards a major in German (see Notes). Two lectures, one seminar weekly. *A. A. Krüger*

German 240H – Freud's Vienna from the Habsburgs to Hitler

Taught in English. An examination of a society in decline and its important contributions in its music, painting, architecture and intellectual life to the shaping of the modern mind, with the use of films, slides and music tapes. Open to all students. May be counted towards a major in German (see Notes). Two lectures, one seminar weekly. (Not offered this year.)

German 305H/WI – Advanced language practice II

Special aspects of German grammar. Written and oral exercises. Prerequisite: *German 205H* or permission of department. Three lectures/seminars weekly. *Staff*

German 310H/FA – The Age of Enlightenment and "Sturm und Drang"

A study of the beginnings of modern German literature, with special attention to Lessing, Goethe and Schiller. Prerequisite: *German 205* or permission of the Head of the German Studies section. Two lectures, one seminar weekly. *Staff*

German – Women's Studies 314H/FA – Studies in German Romanticism in the European context: Women writers and German Romanticism

Prerequisite: *German 205H* or permission. One lecture, two seminars weekly. *Staff*

German 330H – The German Novelle and Erzählung of the 19th and 20th centuries

Prerequisite: *German 205* or permission of department. One lecture, two seminars weekly. (Not offered this year.)

German 341H – East German literature

Prerequisite: *German 205H* or permission of department. One lecture, two seminars weekly. (Not offered this year.)

German – Women's Studies 351H – Women and socialism: The East German context

Taught in English this course will explore sociological, political and literary discourses pertaining to women in former East Germany from the country's birth in 1949 to the collapse of the Berlin Wall in 1989. Prerequisite: None; German majors only, require *German 205H*. Lecture, seminar weekly. German majors enrol in a separate seminar section taught in German. (Not offered this year.)

German 360H – Studies in German literature and cultural developments, 1780–1832

With special attention to Goethe, Schiller and Kleist. Prerequisite: *German 205H* or permission of the department. Two lectures, one seminar weekly. (Not offered this year.)

German 390 – Special topics**German 391H – Special topics****German 392H – Special topics**

HISPANIC STUDIES SECTION

Telephone: (705) 748-1011 ext. 1394
Fax: (705) 748-1630

E-mail: spanish@trentu.ca
Web: www.trentu.ca/spanish

Professors

F. B. García-Sánchez, B.A. (Havana), M.A., Ph.D. (Laval); **T. A. Noriega**, Lic. en Filología (Colombia), M.A., Ph.D. (Alberta)

Associate Professor

G. D. Aitken, B.A. (Trent), M.A. (Stanford) (on leave Winter session)

Professors Emeriti

R. M. Garrido, Lic.Der., Dr.Der., Dr. Filología (Sevilla), M.A. (Toronto); **J. P. González-Martin**, Lic.Der. (Oviedo), Dr.Der. (Zaragoza); **D. L. Smith**, M.A., D.Phil. (Oxford)

Hispanic Studies offers a variety of courses in Spanish language and Hispanic literature, culture and civilization. Language-learning activities are varied, ranging from formal instruction to conversation classes, language labs and computer programs. The emphasis is on skill development and communication, right from the beginning, in preparation for the subsequent courses in literature, culture and civilization. We offer a full Year Abroad program in Spain, designed for second and third year students. It is an excellent opportunity to become proficient in Spanish and to experience the rich cultural heritage of the Hispanic world.

Revision to requirements for the Honours degree in Hispanic Studies

Beginning in the 2001–2002 academic year the Honours degree in Hispanic Studies consists of 20 (rather than 19) credits. This change took effect with students selecting their majors after the start of the 2001–2002 academic year, and does not apply to any students who previously declared a major in Hispanic Studies.

Notes

- *Spanish 100* or *200* is a prerequisite for *Spanish 250* and *290*. However, students with sufficient knowledge of Spanish may be admitted directly into *Spanish 250* and *290* or they may take civilization and literature courses exclusively. A placement interview is required.
- B (75%) or higher in *Spanish 100* is a prerequisite for *Spanish 250*.
- *Spanish 290* must be taken in combination with *Spanish 250*.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in Hispanic Studies, if they have met the requirements for the joint-major General degree (see below).

THE BACHELOR OF ARTS IN HISPANIC STUDIES

- see p. 22 for requirements which apply to all undergraduate degree programs.
- Students in the Hispanic Studies program, for whom one or more of the language course prerequisites have been waived, must still comply with the minimum number of required credits in their program.
- It is strongly recommended that students in Hispanic Studies take *Modern Languages 101*, *201H* and *202H* (see course listings above under Modern Languages & Literatures) and courses in at least one other modern language.

The single-major Honours program. At least 10 credits in Hispanic Studies, including:

- *Spanish 100* or *200*
- *Spanish 250*, *290*, *300* and *310*
- 5 additional credits

The joint-major Honours program. At least 7 credits in Hispanic Studies, including:

- *Spanish 100* or *200*
- *Spanish 250*, *290*, *300* and *310*
- 2 additional credits

The single-major General program. At least 6 credits in Hispanic Studies, including:

- *Spanish 100* or *200*
- *Spanish 250, 290, 300* and *310*
- 1 additional credit

The joint-major General program. At least 5 credits in Hispanic Studies, including:

- *Spanish 100* or *200*
- *Spanish 250, 290, 300* and *310*

YEAR ABROAD PROGRAM

Students may apply to spend their second or third year of studies in Spain, for which they will receive Trent credits. The Year Abroad program is offered at the Universidad de Alicante, on the Mediterranean coast of Spain. In order to be eligible, students must achieve a minimum average of B- (70%) in all courses at Trent (or equivalents) and B (75%) or higher in *Spanish 100* or *200* (or equivalent). For further details, please consult the Section of Hispanic Studies (spanish@trentu.ca) and visit our website: www.trentu.ca/spanish/year-abroad_program.htm.

In 2004-2005 the following courses will be offered in the Year Abroad program:

- Language: *Spanish 250* and *300*
- Civilization: *Spanish 310*
- Literature: *Spanish 290, 311H, and 323H*
- Special topics for students who have successfully completed *Spanish 250* and *290*: *Spanish 4951* and *4952*

Please consult the academic timetable to determine which of the courses listed below will be offered in Peterborough in 2004-2005.

***Spanish 100* – Beginners' course in Spanish**

An introduction to the Spanish language, with an emphasis on oral Spanish, pronunciation, reading and writing as a preparation for *Spanish 250* (required course for Spanish majors) and *Spanish 200*. Three seminars, one computer program hour and one laboratory hour weekly. *G. Aitken and staff*

***Spanish 200* – Continuing Spanish**

A language course with comprehensive review and practice, designed for students with advanced high-school credits or *Spanish 100* or other previous exposure to the language. An alternative course in preparation for *Spanish 250*. Two seminars, one conversation hour and one laboratory hour weekly. *G. Aitken and staff*

***Spanish 250* – Intermediate Spanish**

A comprehensive and more intensive course designed to help students attain significantly better control of their skills in listening, speaking, reading and writing Spanish. Two seminars, one conversation hour and one laboratory hour weekly. Prerequisite: *Spanish 100* (with 75% or better) or *Spanish 200* or permission of instructor. *F. B. García-Sánchez and staff*

***Spanish 290* – Introduction to Hispanic literature and culture**

One lecture and one seminar weekly with fortnightly cultural/literary workshops conducted in Spanish and English. Students enrolled in this course are also normally required to register in *Spanish 250*. Prerequisite: *Spanish 100* or *Spanish 200* or permission of instructor. *T. A. Noriega and F. B. García-Sánchez*

***Spanish 300* – Advanced Spanish and translation**

A study of selected Spanish grammatical features related to composition and oral practice. Emphasis on the development of skills applied to translation from Spanish to English and English to Spanish. Four hours weekly. One seminar/workshop, one conversation hour and one laboratory hour. Prerequisite: *Spanish 250* or permission of instructor. *T. A. Noriega and staff*

***Spanish 310* – Spanish and Spanish-American civilization**

A study of civilization in the Hispanic world: history, political and economical issues, social development, artistic and cultural manifestations including architecture, literature, painting, film, music and folklore. Conducted in Spanish and English. One lecture, one seminar weekly. Prerequisite: *Spanish 250* or permission of instructor. *F. B. García-Sánchez and T. A. Noriega*

Spanish 311H/FA – Spanish contemporary prose

Prose from the generation of 1898 to our times. Lecture and seminar weekly. Prerequisite:

Spanish 290. F. B. García-Sánchez

Spanish 312H/WI – Spanish contemporary theatre and poetry

Since the generation of 1898. Theatre from Valle Inclán to Arrabal and poetry, with special emphasis on the generation of 1927. Lecture and seminar weekly. Prerequisite: *Spanish 290.*

F. B. García-Sánchez

Spanish 322H/WI – Spanish-American poetry

A survey of Spanish-American poetry with special emphasis on the contemporary period. Poets to be studied include Pablo Neruda, César Vallejo, Nicolás Guillén, Nicanor Parra and Octavio Paz.

Lecture and seminar weekly. Prerequisite: *Spanish 290. T. A. Noriega*

Spanish 323H – Spanish-American prose

A survey of Spanish-American prose with special emphasis on the contemporary period. Lecture and seminar weekly. Prerequisite: *Spanish 290. T. A. Noriega*

Spanish 326 – The contemporary Latin-American novel: Adventure and commitment

Conducted in English, this course involves a detailed socio-literary study of selected works by prominent Latin-American writers. May be credited toward a Spanish major. Lecture and seminar weekly. (Support course for International Development Studies) *T. A. Noriega*

Spanish 330 – Spanish literature of the Golden Age

An introduction to the literature and thought of the Renaissance and Baroque periods based on selected authors and topics. Lecture and seminar weekly. Prerequisite: *Spanish 290. F. B. García-Sánchez*

Spanish 401 – Honours thesis

Honours seminar leading to the completion of an undergraduate thesis, with emphasis on research methods and literary criticism. Theme to be chosen in consultation with the instructor. *Staff*

Spanish 415H – History of the Spanish language

An historical survey of the formation and development of the Spanish language from pre-literary times to the present day. Lecture and seminar weekly. *Staff*

Spanish 416H – Medieval Spanish literature

Studies of the Spanish literature from *El Cid* (twelfth century) to *La Celestina* (end of the fifteenth century). Lecture and seminar weekly. *Staff*

Spanish 420 – Contemporary Spanish-American novel

From Modernity to Post-Modernity: Narrative Structure and World View. Structural analysis of selected texts and a study of the intertextual relationships between these texts and the socio-cultural discourses which generate them. Authors to be studied include Gabriel García Márquez, Carlos Fuentes, Mario Vargas Llosa, Isabel Allende et al. Lecture and seminar weekly. Prerequisite: *Spanish 323H* or permission of instructor. *T. A. Noriega*

Spanish 494H – Special topic in Hispanic Studies

Prerequisite: Permission of instructor. *Staff*

Spanish 495H – The Spanish-American contemporary short story: Images of reality

Selected authors and texts. Lecture and seminar weekly. Prerequisite: *Spanish 290* or permission of the instructor. *T. Noriega*

Spanish 496H/FA – Hispanic Realisms: Cervantes, Galdós and Buñuel

Study of three stages of Realism in Spanish culture: the baroque Realism of *Don Quijote* (1605, 1615), the Galdosian Realism of *Tristana* (1892) and the surrealization of Realism operated by Luis Buñuel's cinematographic version (1970) of that novel by Galdós. Lecture and seminar weekly. Prerequisite: *Spanish 311H* or permission of instructor. *F. García Sánchez*

Spanish 497H – Special topic in Hispanic Studies

Prerequisite: Permission of instructor. *Staff*

Spanish 4951 – Special topic in Hispanic Studies

Prerequisite: Permission of instructor. *Staff*

Spanish 4952 – Special topic in Hispanic Studies

Prerequisite: Permission of instructor. *Staff*

Native Management & Economic Development

Telephone: (705) 748-1011 ext. 1466
Fax: (705) 748-1416

E-mail: nativestudies@trentu.ca
Web: www.trentu.ca/nativestudies

The Native Management & Economic Development program provides an interdisciplinary and integrated approach to the development of management, community and economic development knowledge and skills appropriate for working within an Aboriginal environment. The program is offered by the Native Studies department and the Business Administration program, thus blending a study of native culture with management and economic development skills. It is available as a Diploma or as a Specialization in the Business Administration or Native Studies programs.

Notes

- The following options are available in Native Management & Economic Development: a Diploma program in Native Management & Economic Development, a Specialization in the Bachelor of Arts General or Honours degree in Native Studies, a Specialization in the Bachelor of Business Administration Honours degree.
- For information on individual courses see calendar entries for Native Studies and Business Administration.

DIPLOMA IN NATIVE MANAGEMENT & ECONOMIC DEVELOPMENT

- The Diploma is a two-year program open to students who have the equivalent of Ontario Grade 12 or qualify as mature students. Students of Aboriginal ancestry are encouraged to enrol.
- Students are required to successfully complete two non-credit courses: *Communications 91* in the Summer pre-session and *Communications 92H*. For course descriptions see Native Studies (p. 164)
- The Diploma is awarded upon successful completion of the program. With it is included a Trent University transcript identifying all courses undertaken and grades received.
- Upon successful completion of the diploma, students may apply for admission to the B.A. program. With the exception of *Communications 92H*, credits earned in the Diploma program are transferable to the B.A. degree.
- Application to the program should be made to the Office of the Registrar.
- Inquiries should be directed to the academic programs co-ordinator, Native Studies department.

Courses

- *Communications 91H* and *92H*
- *Native Studies 100, 150H, 151H, Business Administration 102, Administration – Native Studies 190* and *272*
- at least 1 of *Native Studies 200, 290, 300* or *305*
- 1 additional credit in Business Administration or Native Studies
- 1 additional credit at the 100-level (recommended courses: *Administration 100H* and *101H, Anthropology 100, International Development 100, Philosophy 105, Politics 100*)

SPECIALIZATION IN NATIVE MANAGEMENT & ECONOMIC DEVELOPMENT

The Specialization in Native Management & Economic Development is available to students in the General or Honours program in Native Studies or in the Bachelor of Business Administration program. The transcripts of students graduating with a General or Honours degree in Native Studies or with an Honours degree in Business Administration, who have successfully completed the requirements of the Specialization, will contain the notation "with a Specialization in Native Management & Economic Development."

BACHELOR OF ARTS PROGRAM IN NATIVE STUDIES

(with a Specialization in Native Management & Economic Development)

- For the purposes of the degree, *Administration – Native Studies 190* and *272* are credited as Administrative courses, not Native Studies courses.
- *Economics 101H* and *102H* are strongly recommended for the Honours and General degree
- *Administration 400* is strongly recommended for the Honours degree.

The single-major Honours program. At least 9 credits in Native Studies. The program must include:

- *Native Studies 100, 150H, 151H, 200, 381H and 383H*
- at least 1 of *Native Studies 225, 280 or 310*
- 3 credits in Native Studies at the 400-level
- 1 additional credit in Native Studies
- *Administration 105 (or 100H and 101H), 102, 250, 350, Administration – Native Studies 190 and 272*

The joint-major Honours program. At least 7 credits in Native Studies. The program must include:

- *Native Studies 100, 150H, 151H, 200, 381H and 383H*
- *Native Studies 225, 280 or 310*
- 2 credits in Native Studies at the 400-level
- *Administration 105 (or 100H and 101H), 102, 250, 350, Administration – Native Studies 190 and 272*

The single-major General program. At least 6 credits in Native Studies. The program must include:

- *Native Studies 100, 150H, 151H, 200, 381H and 383H*
- at least 1 of *Native Studies 225, 280 or 310*
- 1 additional credit in Native Studies
- *Administration 105 (or 100H and 101H), 102, 250, 350, Administration – Native Studies 190 and 272*

The joint-major General program. At least 6 credits in Native Studies. The program must include:

- *Native Studies 100, 150H, 151H, 200, 381H and 383H*
- at least 1 of *Native Studies 225, 280 or 310*
- 1 additional credit in Native Studies
- *Administration 105 (or 100H and 101H), 102, 250, 350, Administration – Native Studies 190 and 272*

BACHELOR OF BUSINESS ADMINISTRATION PROGRAM (with a Specialization in Native Management & Economic Development)

- Include the following courses in the B.B.A. program (p. 50): *Native Studies 100, 150H, 151H, Administration – Native Studies 190 and 272.*

Native Studies

Telephone: (705) 748-1011 ext. 1466

Fax: (705) 748-1416

E-mail: nativestudies@trentu.ca

Web: www.trentu.ca/nativestudies

Associate Professor and Chair of the Department

D. Newhouse, B.Sc., M.B.A. (Western Ontario)

Canada Research Chair

M. Mumford, B.A. (Alberta), M.F.A. (Brandeis)

Professors

D. N. McCaskill, B.A. (Winnipeg), M.A. (Carleton), Ph.D. (York) (*on sabbatical 2004*);

J. S. Milloy, B.A. (St Patrick's), M.A. (Carleton), D.Phil. (Oxford)

Associate Professors

L. Davis, B.A. (Queen's), M.A. (Sussex), M.A. (Alberta), Ph.D (Toronto) (*on leave 2004-2005*);

E. Manitowabi (Anishnaabe Kwe), Mide IV; **M. Dockstator** (Oneida), B.Sc. (Waterloo), L.L.B. (York), D.Jur. (York)

Assistant Professor

L. Simpson, (Anishnaabe Kwe) B.Sc. (Guelph), M.Sc. (Mount Allison), Ph.D. (Manitoba)

Lecturer

D. Longboat, B.A. (Trent), M.E.S. (Toronto)

Professors Emeriti

M. J. Castellano (Mohawk), B.A. (Queen's), M.S.W. (Toronto); **S. I. Williams** (Anshinaabe Kwe), B.A. (Trent), NLIP Dip. (Lakehead), M.A. (York)

Adjunct Faculty

S. Brascoupe (Algonkian/Mohawk), M.A. (New York State, Buffalo); **D. Lazore** (Mohawk), B.Ed. (Montréal); **D. McNab**, B.A. (Waterloo Lutheran), M.A. (McMaster), Ph.D. (Lancaster); **D. Williams** (Mississauga/Ojibway), B.A. (Trent)

Cultural Advisor

V. Douglas, B.A. (Laurentian)

Aboriginal Counselor

J. Argue, B.A., (Guelph), B.A. (Trent), M.A. in progress (Trent)

Native Studies is a multi-disciplinary examination, analysis and reflection upon Aboriginal experience in Canada and the world. This exploration, based in western and Aboriginal epistemologies, aims to develop a more complex understanding of this experience in its many dimensions: political, economic, social/cultural and spiritual. The Native Studies department offers a wide variety of courses allowing students to explore a particular aspect of this experience as well as opportunities for studying their interrelatedness. The department also collaborates with the Business Administration program through the Native Management & Economic Development program and the Environmental & Resource Studies program in offering the Indigenous Environmental Science/Studies program.

Revision to requirements for the Honours degree in Native Studies

Beginning in the 2001–2002 academic year the Honours degree in Native Studies consists of 20 (rather than 19) credits. This change took effect with students selecting their majors after the start of the 2001–2002 academic year, and does not apply to any students who previously declared a major in Native Studies.

Notes

- For the Diploma program in Native Studies see below.
- For the Diploma program in Native Management & Economic Development see the Native Management & Economic Development section of the calendar (p. 161).
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in Native Studies, if they have met the requirements for the joint-major General degree (see below).

BACHELOR OF ARTS PROGRAM IN NATIVE STUDIES

- see p. 22 for requirements which apply to all undergraduate degree programs.
- Only two credits in *Native Studies* 280, 380, 225 and 310 may be counted towards the credits in Native Studies required for a major.
- For the Year Abroad program in Thailand, see below.
- For the Specialization in Native Management & Economic Development, see Native Management & Economic Development (p. 161).

The single-major Honours program. At least 9 credits in Native Studies, including:

- *Native Studies* 100, 200, 381H and 383H
- at least 1 of *Native Studies* 225, 280 or 310
- 3 credits at the 400-level
- 2 additional credits

The joint-major Honours program. At least 7 credits in Native Studies, including:

- *Native Studies* 100, 200, 381H and 383H
- at least 1 of *Native Studies* 225, 280 or 310
- 2 credits at the 400-level
- 1 additional credit

The single-major General program. At least 6 credits in Native Studies, including:

- *Native Studies 100* and *200*
- at least 1 of *Native Studies 225, 280* or *310*
- 3 additional credits

The joint-major General program. At least 5 credits in Native Studies, including:

- *Native Studies 100* and *200*
- at least 1 of *Native Studies 225, 280* or *310*
- 2 additional credits

DIPLOMA IN NATIVE STUDIES

The Diploma Program in Native Studies is a two-year program open to students who have the equivalent of Grade 12 or who qualify as mature students. Students of Aboriginal ancestry are encouraged to enrol. The Diploma is awarded upon successful completion of the program. With it is included a Trent University transcript identifying all courses undertaken and grades received.

Notes

- Upon successful completion of the diploma program, students may apply for admission to the B.A. program. Credits earned in the program are transferable to the B.A. degree.
- Application to the program should be made to the Office of the Registrar.
- Inquiries should be directed to the Academic Programs Co-ordinator, Native Studies department.

Courses

Over a two-year period, students are required to complete seven credits, of which four must be in Native Studies courses. Some 200-level Native Studies courses are available in the first year of the program with the permission of instructor. Students must enrol in two non-credit courses, *Communications 91*, an intensive three-week Summer course preceding their first year in the program, and *Communications 92H* in their first year.

- *Communications 91* provides skill development in studying, writing, reading, speaking and listening. The focus is on Aboriginal content. Successful completion leads to admission to the Diploma program in the Fall.
- *Communications 92H* provides specific research skills for students in the Native Studies Diploma program and in Native Management & Economic Development. Class instruction, seminars and individual tutoring focus on content relevant to the undergraduate course work of participants.

Summer before Year 1

- *Communications 91* (Pre-session)

Year 1

- *Communications 92H*
- *Native Studies 100*
- 2 additional credits, 1 of which may be a 100-level credit in a discipline other than Native Studies.

Year 2

- 4 credits in Native Studies at the 200- or 300-level, exclusive of *Native Studies 390*. 1 credit at the 100-level from a discipline other than Native Studies may be substituted for any of these.

DIPLOMA AND SPECIALIZATION IN INDIGENOUS ENVIRONMENTAL STUDIES

See Indigenous Environmental Studies (p. 107).

DIPLOMA AND SPECIALIZATION IN NATIVE MANAGEMENT & ECONOMIC DEVELOPMENT

See Native Management & Economic Development (p. 161).

YEAR ABROAD PROGRAM

The Native Studies Thailand Year Abroad program is offered in Chiang Mai, Thailand. The program is designed to afford students the opportunity to study the culture and development of Indigenous Peoples of South East Asia and to apply their learning in a practical situation. It is an integrated five-credit program for students in the third or fourth year of the Native Studies program as well as students from other disciplines or from other universities attending Trent on a Letter of Permission. To be eligible, students must achieve at least a B- (70%) average in their academic program the year before going to Thailand. The program consists of:

- *Native Studies 180 and 311*
- *Native Studies – International Development 305 or 482*
- *Native Studies 386 and 390 or Native Studies 402D (practicum field placement)*

Please consult the academic timetable to determine which of the courses listed will be offered in 2004–2005.

Native Studies 100 – Introduction to Native Studies

The course examines the contemporary situation of Aboriginal People in Canada in the context of their cultural traditions and the historical interactions between Aboriginal and non-Aboriginal societies. Seminar and two lectures weekly. *D. Newhouse*

Native Studies 150H – Introduction to Aboriginal community development

An overview and examination of the concepts of “community” and “development” in an Aboriginal context. The course will examine traditional and contemporary Aboriginal communities and the utilization of human and natural resources to improve life in the community. Lecture and seminar weekly.

Native Studies 151H – Introduction to Aboriginal community-based economic development

An overview of the formal and informal, traditional and modern, economies of Aboriginal communities. Factors affecting the location and viability of economic activities, as well as the roles played by women and Elders in their communities, will be examined. Lecture and seminar weekly. *D. McCaskill*

Native Studies 180 – Introduction to Thai language

This is a conversational course designed for the students to have some ability to participate in Thai culture. This is an intense course designed to give some language skills and experience culture through language. (Offered only in Thailand.)

Native Studies – Administration 190 – Introduction to management and decision-making in contemporary Aboriginal organizations (see Business Administration)

Native Studies – Politics 200 – Politics and Aboriginal communities

The course will focus both on the traditional political culture of Aboriginal Peoples and on the political structures of colonialism (Indian Acts, Treaties, etc.) viewed from legal and historical perspectives. Contemporary analysis will treat Aboriginal self-government including models of development, cultural and ideological foundations, government policy and implementation strategies. Prerequisite: *Native Studies 100*. Lecture and seminar weekly. *M. Dockstator*

Native Studies – Canadian Studies – Environmental Studies – Geography 204 – Canada, the land (See Canadian Studies)

Native Studies 211 – Aboriginal identity development

This course examines the processes of Aboriginal identity development in various life stages. Emphasis is placed on the self in historical and contemporary time periods, and the problems of self identity in a post-modern world. Aboriginal religions, spiritual philosophies and world views are examined. Lecture and seminar weekly.

Native Studies – Environmental & Resource Science 215H – Environmental assessment techniques for Aboriginal communities

This course will provide students with appropriate western scientific theory and basic scientific skills to address environmental and natural resource issues frequently encountered on Indigenous lands. It will be offered as a two-week intensive course at the Oliver Ecological Centre. Not open to students in a B.Sc. program.

Native Studies 220 – Haudenosaunee culture and traditions

A study of the political, economic, kinship and religious institutions of traditional Iroquois society including prehistoric background, establishment of the Six Nations Confederacy, the longhouse religion and contemporary situation. Lecture and seminar weekly.

Native Studies 225 – Oral Mohawk

An introduction to Mohawk designed for students with little or no knowledge of the language. This is a conversational course, emphasizing the use and understanding of Mohawk through the learning of the basic vocabulary and sentence patterns in class and in language laboratory. Three hours weekly.

Native Studies – Cultural Studies 230 – An introduction to the key concepts and issues in post-colonial theory

The course focuses on theories of hybrid identity, resistance and agency within a contemporary Aboriginal context specifically as they apply to debates on essentialism, identity politics and cultural appropriation. Prerequisite: *Native Studies 100*

Native Studies – Anthropology – Canadian Studies 253 – Aboriginal art of North America
(see Anthropology)**Native Studies – Canadian Studies – History 255 – History of the Indians of Canada**

A study of Aboriginal involvement in the fur trade and imperial politics of the eighteenth century, the development of European "civilizing" policies and the growth and ideology of the modern Aboriginal political movement. Prerequisite: *Native Studies 100* Seminar and lecture weekly.
J. Milloy

Native Studies – Environmental & Resource Studies 260 – Introduction to Indigenous Environmental Studies

This course explores Indigenous worldviews, environmental philosophies and values through exposure to the perspectives of Indigenous Elders, community people, political leaders, academics, activists and scholars. Students will also be introduced to Indigenous knowledge as it pertains to the environment. Prerequisite: *Native Studies 100*.

Native Studies – Canadian Studies – History 270 – History and politics of the Métis

An examination of the historical development of the Métis nation and survey of selected issues facing the Métis today. Prerequisite: *Native Studies 100*

Native Studies – Administration 272 – Organizational behaviour in contemporary Aboriginal organizations (see Business Administration)**Native Studies 280 – An introduction to Nishnaabemowin for students with little or no knowledge of the language**

This is a beginner's course, emphasizing the use and understanding of Nishnaabemowin through the learning of the basic vocabulary and sentence patterns in class and in the language laboratory. Three classroom hours weekly plus lab work. *E. Manitowabi*

Native Studies – Canadian Studies 285 – Aboriginal People and the North

A study of political, economic, social and cultural factors which affect the Aboriginal Peoples of Northern Canada. The course will closely examine each of the Northern comprehensive land claims, as well as the development of the new Nunavut territory. Lecture and seminar weekly.

Native Studies 290 – Aboriginal economic development

Provides an overview of the economic development process with specific reference to Aboriginal communities. The course examines types of economic activities, where they locate and why. Planning for community economic development as well as business feasibility studies will be covered. Weekly seminars. Prerequisite: *Economics 101H and 102H or Native Studies 150H and 151H*.

Native Studies – Politics 302 – Aboriginal governance

This course examines and analyses the development of Aboriginal forms of governance in Canada with a particular emphasis upon cultural, philosophical and political foundations. Prerequisite: *Native Studies 100*. Excludes *Native Studies 300*. Seminar weekly.

Native Studies – International Development 305 – Aboriginal community development

A study of various approaches to community development in Aboriginal and Third World communities. The course will examine current initiatives in human resource, political and economic development, and critical issues relating to local control, values, gender, government policies and roles in social change processes. Prerequisite: *Native Studies 100 or International Development 100*. Lecture and seminar weekly.

Native Studies 310 – Culture and community

A study of cultural continuity, change and revitalization in Aboriginal communities in Canada. The dynamic nature of cultural adaptation and the significance of tribal language, spirituality and social responsibilities will be emphasized. Prerequisite: *Native Studies 100* and one other Native Studies course. Lecture and seminar weekly.

Native Studies 311 – Hill Tribes and Thai culture

A study of cultural continuity, change and revitalization in Hill Tribes and Thai communities in Thailand. The dynamic nature of cultural adaptation and the significance of tribal language, spirituality and social responsibilities will be emphasized. (Offered only in Thailand.)

Native Studies 320 – Urbanization and the Aboriginal Peoples

An analysis of migration, adjustment and integration of Aboriginal People into urban areas, examining various issues including: identity, urban Aboriginal self-government, crime, justice and corrections, urban youth gangs, the development of urban Aboriginal organizations, as well as cultural interaction between Aboriginal and white society in rural Aboriginal communities. Prerequisite: *Native Studies 100*. Lecture and seminar weekly. *M. Dockstator*

Native Studies 330 – Education and Aboriginal Peoples

The course will examine issues pertaining to the development of an appropriate educational system for Aboriginal People including Aboriginal control of Aboriginal education, learning theories, Aboriginal culture, values and identity, teaching and learning styles, pedagogy and curriculum planning. Prerequisite: *Native Studies 100*. Lecture and seminar weekly.

Native Studies 340 – Aboriginal law

A practical introduction to the emerging and quickly expanding field of Aboriginal rights. Provides students with an opportunity to apply their learning to realistic situations. Emphasis on preparing students to deal with rights based issues they may encounter after graduation. Prerequisite: *Native Studies 100*. Lecture and seminar weekly.

Native Studies – Women's Studies 350 – First Nations women

This course examines the experience of First Nations women in Canada today with respect to cultural expression in the arts, education, work, family, health, politics and the law. Contemporary issues facing First Nations women will be examined. Women's Symposium included. Prerequisite: *Native Studies 100* or *Women's Studies 100*.

Native Studies – Canadian Studies – English 360H/FA – Native fiction (see English Literature)**Native Studies – Canadian Studies – English 361H/WI – Native poetry** (see English Literature)**Native Studies – Environmental & Resource Studies 363 – Issues in Indigenous Environmental Studies**

This course explores contemporary environmental issues and solutions as defined by Aboriginal Peoples at the community, nation and international levels. Topics may vary from year to year based on student interest and current issues facing Aboriginal Peoples. Prerequisite: *Environmental & Resource Studies – Native Studies 260*.

Native Studies 380 – Intermediate oral Nishnaabemowin

An intermediate course in conversation and pronunciation as well as an introductory exploration of the written orthography, using language laboratory and classroom participation. Three hours weekly. Enrolment may be limited. Prerequisite: *Native Studies 280* or permission of instructor. *S. I. Williams*

Native Studies 381H – Theory of community-based research

A practical introduction to research methods in the social sciences, including a critique of those methods in the context of Native studies. The ideological base of participatory and action research is examined along with case studies exemplifying alternative methodologies. Prerequisite: *Native Studies 100* and *200*. Lecture and seminar weekly.

Native Studies 383H – Community-based oral history methods

Emphasis is upon the cultural and strategic approaches which enhance oral history methods in Aboriginal communities. Topics include research design, community rapport, administration, community-based data collection and analysis. A small-scale field project will be developed. Prerequisite: *Native Studies 100* and *200*. Weekly lecture and seminar. *D. McCaskill*

Native Studies 386 – Practicum field placements

An opportunity for students to apply learning in a field setting, reflecting student interests and the availability of agencies willing to take students. Learning about development and culture will be dialectical, through experience (action) and reflection on experience. It will be formal and informal, and at many levels (personal, interpersonal and community). See chair of the department.

Native Studies 390 – Reading course

Intended for third-year majors and for second-year students, by application to the department, who wish to carry out independent research. Details must be arranged with the chair of the department before the end of the preceding academic year. Prerequisite: B average in Native Studies courses.

Native Studies 391H – Reading course

Intended for third-year majors and for second-year students who wish to carry out independent research. Details must be arranged with the chair of the department before the end of the preceding academic year. Prerequisite: B average in Native Studies courses.

Native Studies 392H – Reading course

Intended for third-year majors and for second-year students who wish to carry out independent research. Details must be arranged with the chair of the department before the end of the preceding academic year. Prerequisite: B average in Native Studies courses.

Native Studies 395 – Special topics: Indigenous theatre

An introduction to Indigenous theatre, this course explores contemporary Native theatre through an examination of works by contemporary artists including playwrights, actors, writers and directors. Course includes a variety of workshop style classes and stresses participation in performance, writing, props and costume. Lecture and seminar weekly. *M. Mumford*

Native Studies 3951 – Special topics: Images in contemporary media

Focusing on the construction and deconstruction of "Nateness" in popular media, film and television, this course encourages critical analysis of the images of Indigenous peoples which inundate today's visual world. Students will explore the evolution of both historical and current trends in the appropriation and exploitation of cultural imagery.

Native Studies – Anthropology 398H/FA – Ethnographic representations of Canadian Aboriginal People (see Anthropology)**Native Studies – History 400 – Research seminar in Aboriginal history**

The seminar will focus on ethnohistorical methods and Aboriginal historiography. Prerequisite: *Native Studies 381H and 383H* or permission of instructor. *J. Milloy*

Native Studies 402D – Thesis

A double credit in-depth study course in library or field-oriented research, supervised by a Research Project Committee for which a double fee is charged. Details must be arranged with the chair of the department before the end of the preceding academic year. Prerequisite: *Native Studies 381H and 383H* and B+ average in Native Studies courses.

Native Studies 410 – Seminar on Indigenous knowledge

This seminar explores contemporary Indigenous expressions and interpretations of traditional thought and beliefs. Modes of organizing, validating and communicating knowledge form central themes.

Native Studies 420 – Native Studies Honours collegium

Topic for 2004-05: Indigenous Peoples of Latin America. This course will look at the notion of community and nation among Indigenous Peoples of Latin America after 1850. As well it will look at the clash between communities, nations and the non-native nation-state. Excludes *History 447*. *D. Sheinin*

Native Studies – Canadian Studies – History 425 – The evolution of the settlement commonwealth

A comparative study of Canada, Australia and New Zealand, with special emphasis on the relationship between the "settlers" and the Aboriginal Peoples. *J. Milloy*

Native Studies 430 – Critical theory and Native Studies

A seminar on the relevance of contemporary western social and political thought to Aboriginal issues. The course will apply a broad range of theoretical approaches to develop understandings and insights of Aboriginal and western societies and the specific character of the interactions between them.

Native Studies – Anthropology 455 – Anthropology and Aboriginal Peoples of Canada (see Anthropology)

Native Studies 480 – Advanced Nishnaabemowin language

This fourth-year course will be a continuation of the study of the Nishnaabemowin language. This course will study four different styles of Nishnaabe verbs. Prerequisite: *Native Studies 280* and *380* or permission of instructor. *S. I. Williams*

Native Studies 481 – Selected topics

Aboriginal People of the Arctic. This course will examine the political, social, economic and cultural development of the Indigenous people of Siberia, Alaska, Canada and Greenland. Prerequisite: *Native Studies 200* or *285* or *Native Studies 381H* and *383H* or permission of instructor.

Native Studies – International Development 482 – Aboriginal responses to cultural interaction

Focus will be on social and psychological processes involved when cultures meet, examining acculturation and conflict models, culture and personality, interaction perspectives and ethnic identity studies.

Native Studies 490 – Reading course

Students may select an area of study under the direction of an adviser. Details are to be arranged through the chair of the department before the end of the preceding academic year. Prerequisite: B+ average in Native Studies courses.

Nursing

Telephone: (705) 748-1011 ext 1099
Fax: (705) 748-1088

E-mail: nursing@trentu.ca
Web: www.trentu.ca/nursing

Director of the Program

L. E. Lewis, B.Sc.N. (Toronto), M.Sc.N. (Toronto), Ph.D. (Case Western Reserve)

Associate Director of the Program (Fleming)

K. E. Kincaid, B.N. (McGill), M.A.Ed. (Central Michigan)

B.Sc.N. Co-ordinator (Fleming)

K. A. Hick, B.Sc.N. (McMaster), M.A.Ed. (Central Michigan), N.P. (Queen's)

Assistant Professor

I. Brenner, R.N., B.Sc. (Toronto), B. Phys. Ed. (Toronto), B.Sc.N. (Toronto), M.Sc. (Queen's), Ph.D. (Toronto)

Lecturers

C. Graham, M.Sc. (Queen's), B.Sc.N. (McMaster); **L.-A. Hagerman**, M.B.A. (Sarasota), B.Sc. N. (Queen's); **M. McIntosh**, B.A. (Queen's), B.Sc. N., M.Sc. (Toronto)

The Trent University/Fleming College Nursing program is an integrated, collaborative four-year program leading to a Bachelor of Science in Nursing (B.Sc.N.) degree. Courses in the program are delivered on both sites throughout the four years.

Opportunities for practical application of theoretical principles are offered throughout the program. Each year of the program has a focus around which all theory and practice courses are planned.

The program exposes students to a variety of contexts within which care is delivered in today's world. The curriculum is intended to move the student through an understanding of the self as client to the provision of care to others: namely, individuals, families, communities and other groups. Practicum opportunities stress a holistic approach to care delivery, recognizing that the nurse must assess the needs of the client and encourage, advocate for, and support the client's quality health care.

Various teaching methods are used in the program, including lectures, labs and seminars for theory courses and case studies and simulations for nursing courses.

Students may choose to develop a specific focus within the program (e.g. Aboriginal health issues, women's health issues, geriatric nursing) through careful selection of elective courses at both Trent and Fleming. Students should consult with the program director for help in selecting courses to ensure that all prerequisites are met.

Admission Requirements

A high school diploma and six Ontario Academic Courses or six grade 13 credits or six Ontario U/UC credits (or combinations adding up to six course credits), including one OAC or 12 U credit in each of Chemistry, Biology, English and Mathematics are required for admission. Normally students with an overall average lower than 70% will not be admitted to the program.

In addition, all successful applicants will be required to obtain before registration:

- Medical documentation re. health status and immunization records
- Full Hepatitis B immunization
- CPR certification
- Two-step TB tests or clearance
- Police record search

Application Procedure

Applications for this program are to be submitted to:

Ontario Universities' Application Centre

Application code: RCN

Program name: Trent University/Fleming College Program in Nursing (B.Sc.N.).

For the 2004-2005 academic year a compressed/fast track admission may be offered, (subject to funding), for students with university transfer credits. Students wishing to complete the degree in three years should contact the Nursing program or the Office of the Registrar for further details and for assessment of their application.

Revisions to requirements for the B.Sc.N. degree in Nursing

The B.Sc.N. program has introduced revisions to degree requirements. The requirements for the B.Sc.N. program are set out below.

BACHELOR OF SCIENCE IN NURSING PROGRAM

- see p. 22 for requirements which apply to all undergraduate degree programs.
- The categories of Honours and General degree do not apply to the B.Sc.N.
- A maximum of three D grades (50-59%) can be counted toward the B.Sc.N. degree. These cannot be in Nursing courses.
- A cumulative average of 65% is required for the B.Sc.N. degree.
- Students must successfully complete all required courses in a given year before proceeding to the next year of the program.
- For support courses available to nursing students, advisors within the program can be consulted. Students should plan their programs carefully to ensure they meet prerequisites for support courses.
- All degree requirements must be met within seven years of admission to the program.
- Nursing practice experiences and lab experiences may be graded on a pass/fail basis as a separate component of the course requirements. Students must obtain a pass in this component in order to pass the entire course.
- Competencies based on knowledge and skill acquisition must be achieved to meet standards of entry to practice. Attendance, therefore, is mandatory for all students.
- Unsafe Nursing practice is considered to be professional misconduct, and will result in temporary suspension from the course. Such suspension will remain until the case is reviewed with the director of the Nursing program. Students can only return to the course with the approval from the Director. Students can appeal the Director's decision to the Special Appeals Committee.
- Students transferring into the program from another university or community college will have their transcripts assessed by the Office of the Registrar for course credit transfer. Students transferring into the program from another Trent or Fleming department or program should consult with the Director to confirm their course of study.
- There is no minor in Nursing.

The program consists of 20 credits. At least 10.5 credits in Nursing. The program must include:

Year 1

Students will be introduced to the study of nursing through courses addressing normal health and life of individuals across the lifespan. Courses in Nursing will focus on basic concepts at the root of nursing practice and introduce the student to Nursing's history and professional base. Arts and science courses will offer the student a broad base of knowledge in the physiological and sociological concepts of "normal" and "healthy" human beings.

- *Nursing 100, 101H, 102H*
- *Biology 105, Chemistry 155H, Psychology 101*
- 1 credit from *Anthropology 100, Native Studies 100, Sociology 100, or Women's Studies 100*

Year 2

In the second year students will focus on aspects of illness or "abnormality." Nursing courses and practice will address concepts of illness, the pathophysiology underlying disease conditions and the appropriate treatment thereof. Issues of legal and ethical import will be addressed. Students will be encouraged to develop a focus in an area of interest and to pursue electives within that focus.

- *Nursing 200H, 201H, 202H, 203H*
- *Biology 213H, 214H, Philosophy 234*
- 1 credit at the 100- or 200-level from the support courses (consult advisors within the program)

Year 3

Year 3 will address issues of family and the context of community care delivery. Students will develop knowledge of the impact of illness on families and the health of communities at large. Community health and the care of families in transition will be a focus for the year through nursing courses and electives. Continued development of a focus at a third year level will be encouraged. Practice opportunities will become more independent and less faculty directed.

- *Nursing 300H, 302H, 301H, 303H, 304H*
- at least one of *Nursing 305 or 395H or Psychology 215*
- *Psychology 384H*
- 1 credit at the 200 or 300-level from the support courses (consult advisors within the program)

Year 4

The final year of the program encourages students to become independent practitioners and functioning professionals. Choices in placement in the latter semesters and continued development of a body of knowledge of community health prepare the student for entry to the nursing profession. Further electives in areas of focus (advanced topics) will be consistent with practicum choices.

- *Nursing 400H, 402H, 404H, 403D*
- 0.5 credit from *Nursing 410H, 411H, 412H*
- 0.5 credit at the 300-level in the Fall session from the support courses (consult advisors within the program)

Please consult the academic timetable to determine which of the courses listed will be offered in 2004-2005.

Nursing 100 – Introduction to nursing theory and practice: Focus on wellness

An introduction to the context of health and the central concepts and theories relevant to nursing. Topics include therapeutic communication with individuals and groups, and how the nursing profession deals with determinants of health and cultural influences. Observation and nursing practice will occur in a variety of settings. This course is open only to students enrolled in the B.Sc.N. program.

Nursing 101H/FA – The nursing profession in today's society

Introduction to the political, social and economic context of health care as it relates to nursing. Topics include the historical development of the profession, the development of nursing theory and research, the Canadian health care system, and current health related policies and issues. This course is open only to students enrolled in the B.Sc.N. program.

Nursing 102H/WI – Health assessment of the individual

Introduction to the study of the basic principles and components of a comprehensive holistic health assessment of individuals across the lifespan. Various factors affecting health assessment, including physical, psychological, sexual, cultural, spiritual, familial, community, and environmental issues, will be explored. This course is open only to students enrolled in the B.Sc.N. program.

Nursing 200H/FA/WI – Nursing concepts & illness experiences

Understanding the experience of illness and developing skills with which to support individuals and families affected by illness. Among the topics to be explored are the illness trajectory, acute, chronic and palliative illness, rehabilitation, the hospitalization experience, stress and crisis. Laboratory exercises will support nursing practice in medical and surgical units in institutions. Prerequisite: *Nursing 100, 102H*.

Nursing 201H/FA/WI – Nursing care of clients: Focus on illness

Examination of major symptom groups as they are manifest in illness or impaired health. Focus will be placed on recognition of abnormal findings, anticipation of clients' needs for care, planning, implementation and evaluation of nursing care. Prerequisite: *Nursing 100, 102H*. Co-requisite: *Nursing 202H*.

Nursing 202H/FA/WI – Nursing practice in acute care settings

In this practice course, the focus is on the care of the client and family experiencing acute illness episodes requiring hospitalization. Using a systematic problem-solving and theoretical approach, students will provide care for clients with a variety of illness and disease conditions. Prerequisite: *Nursing 100, 102H*. Co-requisite: *Nursing 201H*.

Nursing 203H/WI – Nursing therapeutics and disease conditions

Examination of the pathophysiology underlying selected disease conditions of individuals across the lifespan. Selected epidemiological concepts such as risk factors, prevention, etiology, and pathophysiology will be examined. Students will explore current literature to determine therapeutic interventions using evidence-based practice. Prerequisite: *Nursing 100, 102H, Biology 105, Chemistry 155H*, Co- or prerequisite: *Biology 213H, 214H*.

Nursing 300H/FA – Nursing concepts and community health care

An overview of community health nursing in Canada. Focus on epidemiological principles, health care delivery models, health promotion and program planning and the community health nurse's role in relation to families, groups, communities and aggregates. Prerequisite: Successful completion of all required second-year Nursing courses. Co-requisite: *Nursing 302H*.

Nursing 301H/WI – Nursing concepts and family centred nursing care

Introduces the student to family nursing. A systems-based conceptualization of the family is used to examine social, psychological and cultural influences on the family. Students learn ways to work with families using health promotion strategies. Approaches used in working with families in primary health care, continuing care, and acute care are examined. Prerequisite: Successful completion of all required second year Nursing courses. Co-requisite: *Nursing 303H*.

Nursing 302H/FA – Community health nursing care

Opportunities to practice in community settings such as public health departments, visiting nursing services and ambulatory settings introduce the student to the role of the community health nurse. Skills at program planning, case management, community assessment and interdisciplinary planning will be addressed. Prerequisite: Successful completion of all required second year Nursing courses. Co-requisite: *Nursing 300H*.

Nursing 303H/WI – Nursing care of families

Opportunities for students to practice with families in childbearing, childrearing and family caregiving settings, both institutional and community based. Application of family theories and introduction of new skills in care delivery, support, teaching and counseling of families will be developed. Prerequisite: Successful completion of all required second year Nursing courses. Co-requisite: *Nursing 301H*.

Nursing 304H/WI – Health care delivery and nursing leadership

Focus on the nurse's role in providing leadership and facilitating change in both personal and professional contexts. Content will include a discussion and analysis of theories and skills related to leadership, management, change and organizations. The current changes in health care delivery organizational structures, evidence-based practice and implications for personal and professional development. Prerequisite: *Nursing 101H*.

Nursing 305 – Nursing research methods and measurement

An introduction to methodological, statistical and computer techniques used in nursing research and the application of these techniques to quantitative and qualitative research in the discipline and its relationship to clinical practice. (This course fulfils the Mathematics requirement for the B.Sc.N.) Prerequisite: 60% or higher in *Nursing 100*.

Nursing 395H – Special topics: Nursing research methods

This course will examine nursing research and its relationship to clinical practice. The emphasis will be on developing an understanding of the research process, interpreting and evaluating research studies, applying research findings to practice and identifying further areas for nursing research. This course is available only to nursing students with a previous course in Statistics equivalent to the Math requirement. (Not offered this year.) Prerequisite: 60% or higher in *Nursing 100*.

Nursing 400H/FA – Nursing concepts and at-risk groups

Overview of issues of marginalization – poverty, homelessness, substance abuse, mental illness, end-of-life care. Understanding of the disruption to families in situations of death, transitions and crises due to prolonged or critical illness. Pre-requisite: Successful completion of all required third year Nursing courses. Co-requisite: *Nursing 402H*.

Nursing 402H/FA – Nursing in complex care environments

Nursing practice opportunities to address disruptions involving families posed with dilemmas in mental health, elder or child care. Teaching and health promotion opportunities for families experiencing hospitalization for chronic illnesses. Pre-requisite: Successful completion of all required third year Nursing courses. Co-requisite: *Nursing 400H*.

Nursing 403D/WI – Independent nursing practice

Opportunity to consolidate nursing practice competencies in a chosen practice focus. Using a theoretical approach that is relevant to their practice focus, students will assume responsibility for complex assignments as they progress towards functioning as beginning entry level baccalaureate graduates. 2.0 credits. Prerequisite: Successful completion of all required third-year Nursing courses, *Nursing 400H, 402H*. Co-requisite: one of *Nursing 410H, 411H or 412H*.

Nursing 404H/FA – Professional trends and issues

Current issues and future perspectives in health care will be critically analyzed in relation to their implications for and their influence on the organized profession, individual nurses and nursing practice. At a beginning level, students will participate in the development of health and social policy. Prerequisite: *Nursing 304H*.

Nursing 410H/WI – Advanced topic: critical care nursing

This course will provide students with opportunities to develop a depth and breadth of knowledge and skills in the critical care nursing care of clients and families. Students will be encouraged to examine the nurse's role within the interdisciplinary team in a variety of health settings. Co-requisite: *Nursing 403*. Prerequisite: successful completion of all required third year Nursing courses, *Nursing 400H, 402H*.

Nursing 411H/WI – Advanced topic: Primary health care

This course will provide students with opportunities to develop a depth and breadth of knowledge and skills in the primary health care of clients (individuals, families, communities). Primary health care theory and research literature will be examined relating to issues relevant to each topic. Co-requisite: *Nursing 403*. Prerequisite: successful completion of all required third year Nursing courses, *Nursing 400H, 402H*.

Nursing 412H/WI – Advanced topic: Transitions towards health in illness

This course will provide students with opportunities to develop a depth and breadth of knowledge and skills in the nursing care of clients and families in transitional health states. The theoretical and research literature will be examined relating to issues relevant to transitions in health states. Co-requisite: *Nursing 403*. Prerequisite: Successful completion of all required third year Nursing courses, *Nursing 400H, 402H*.

Philosophy

Telephone: (705) 748-1011 ext. 1814
Fax: (705) 748-1131

E-mail: philosophy@trentu.ca
Web: www.trentu.ca/philosophy

Associate Professor and Chair

F. C. McKinnon, B.A. (McGill), B.Phil., D.Phil. (Oxford)

Professors

B. J. Hodgson, M.A. (Toronto), Ph.D. (Western Ontario); **R. M. Neumann**, B.A. (Columbia), M.A., Ph.D. (Toronto) (*on leave 2004-2005*); **C. W. Tindale**, B.A. (Wilfrid Laurier), M.A., Ph.D. (Waterloo)

Associate Professors

D. Morris, M.A., Ph.D. (Toronto) (*on leave 2004-2005*); **E. Stavro**, M.A., Ph.D. (Toronto)

Assistant Professors

M. Howes, B.Sc., M.A. (Guelph), Ph.D. (Western Ontario); **D. McDermid**, B.A. (Western Ontario), M.A., Ph.D. (Brown)

Lecturer

E. Angelova, B.A. (Sofia), M.A. (Sofia/Toronto)

Professors Emeriti

C. B. Boundas, M.A., Ph.D. (Purdue); **J. W. Burbidge**, M.A. (Yale), B.D., Ph.D. (Toronto), FRSC; **R. E. Carter**, A.B. (Tufts), M.Div. (Harvard), M.A., Ph.D. (Toronto); **D. Gallop**, M.A. (Oxford); **J. I. MacAdam**, B.A. (New Brunswick), M.A. (Queen's), Ph.D. (London); **M. L. Rubinoff**, B.A. (Queen's), M.A., Ph.D. (Toronto)

The Philosophy department at Trent aims to provide students with critical skills in understanding, evaluating, defending and criticizing arguments. Some students recognize the intrinsic merits and interests of Philosophy. Our program ensures that these students are provided with a grounding in the history of the discipline as well as opportunities to explore areas of particular philosophical interest. Other students wish to develop the kinds of critical reading, writing, thinking and speaking skills that are best taught in Philosophy courses. These students recognize the value of these skills whatever discipline they study at Trent and whatever futures they imagine for themselves. The undergraduate program at Trent offers programs that are designed to satisfy the needs of both kinds of students.

Revision to requirements for the Honours degree in Philosophy

Beginning in the 2001–2002 academic year the Honours degree in Philosophy consists of 20 (rather than 19) credits. This change took effect with students selecting their majors after the start of the 2001–2002 academic year, and does not apply to any students who previously declared a major in Philosophy.

Notes

- It is strongly recommended that students successfully complete *Philosophy 101* or *105* before enrolling in upper level Philosophy courses.
- First year students who wish to enrol in 200-level courses must consult with the chair of the department.
- 200-level courses in Philosophy are considered equivalent to 300-level courses in order to satisfy the University requirement for at least seven credits beyond the 200-level in the Honours program and at least four in the General program.
- Students may earn a joint-major Honours B.Sc. in Philosophy and a Science subject if they satisfy the departmental requirements for the joint major Honours program in Philosophy and in the Science subject and if they complete 14 Science credits. *Philosophy – Computer Science 240H*, *Philosophy – Psychology 277* and *Philosophy 278H* count as Science credits. Students who wish to earn a B.Sc. should consult with the chair of the department very early in their program.
- For the Emphasis in Applied Ethics, see p. 210.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.

- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in Philosophy, if they have met the requirements for the joint-major General degree (see below).

BACHELOR OF ARTS PROGRAM IN PHILOSOPHY

- see p. 22 for requirements which apply to all undergraduate degree programs.
- *Philosophy 101* or *105* are strongly recommended for all students in the Philosophy program.
- *Philosophy – Computer Science 240H* is strongly recommended for all students in the Philosophy program, especially for those intending to do graduate work in Philosophy.
- Every year a minimum of six half-credit courses in Philosophy will be offered at the 400-level.
- No more than one credit from reading courses may count towards the number of Philosophy credits required for the degree.

The single-major Honours program. At least 9 credits in Philosophy, including:

- *Philosophy 210* and *310*
- 7 additional credits, including *Philosophy 105* or *Philosophy – Computer Science 240H*, at least 1 credit at the 300-level and at least 2 credits at the 400-level

The joint-major Honours program. At least 7 credits in Philosophy, including:

- *Philosophy 210* and *310*
- 5 additional credits, including at least 1 credit at the 300-level and at least 1 credit at the 400-level

The single-major General program. At least 6 credits in Philosophy, including:

- *Philosophy 210* and *310*
- 4 additional credits, including at least 1 credit at the 300-level

The joint-major General program. At least 5 credits in Philosophy, including:

- *Philosophy 210* or *310*
- 4 additional credits
- at least 1 of the credits in Philosophy at the 300-level

Please consult the academic timetable to determine which of the courses listed will be offered in 2004- 2005.

Philosophy 101 – Introduction to philosophical inquiry

An introduction to philosophy through a study of fundamental problems, such as the nature of moral right and wrong, the freedom of the will, the relation between mind and matter, and the existence of God, as presented in contemporary writings and classical texts by, for example, Plato, Descartes, Kant and Nietzsche. Excludes *Philosophy 102H* and *103H*. Lecture and tutorial weekly. *B. J. Hodgson, F. C. McKinnon*

Philosophy 102H – Introduction to philosophical inquiry

A half-year introduction to philosophy through a study of some fundamental philosophical problems, as presented in contemporary writings and classical texts. Excludes *Philosophy 101*. Two hours weekly. *Staff*

Philosophy 103H – Introduction to philosophical inquiry

A half-year introduction to philosophy through a study of some fundamental philosophical problems, as presented in contemporary writings and classical texts. Excludes *Philosophy 101*. Two hours weekly. *Staff*

Philosophy 105 – Practical reasoning

The study of the uses of statements and arguments in reasoning, as they occur in a variety of contexts. Emphasis will be placed on developing skills in recognizing, constructing and critically evaluating arguments. Lecture and tutorial weekly. *M. Howes, C. W. Tindale*

Philosophy – Classical Civilization 210 – Ancient philosophy

The development of philosophical thought from the Pre-Socratic to Neo-Platonist and Christian thinkers of late antiquity. Special emphasis will be placed upon selected works of Plato and Aristotle. Two hours weekly. *C. W. Tindale*

Philosophy 211 – The philosophical development of the modern world

A study of selected philosophical texts against their historical background, showing how philosophical and historical developments open the way for the “modern” world and “post-modern” responses to it. Provides crucial background to current theoretical discussions in the Humanities and Social Sciences. Two hours weekly. (Offered in alternate years but not this year.)

Philosophy 214 – Introduction to existential philosophy

Themes will include consciousness as a source of meaning and interpretation, individuality, intersubjectivity and community, freedom, choice and responsibility, difference and repetition, and nihilism and creation. Texts will be selected from the writings of Nietzsche, Kierkegaard, Camus, Sartre, Marcel, de Beauvoir, Merleau-Ponty, Heidegger, Ricoeur and Barthes. Two hours weekly.
E. Angelova

Philosophy 230 – Moral issues

An application of basic principles of moral philosophy to some ethical problems of contemporary society. Topics might include: abortion and euthanasia, animal rights and species preservation, the justice of our economic system, world hunger and population control, censorship and pornography, women's rights and minority rights, ethical issues arising out of technological innovations. Two hours weekly. *Staff*

Philosophy – Women's Studies 231 – Feminist philosophy

Feminist philosophers have challenged, reconceptualized, and made positive contributions to many of the central problems of philosophy. We will consider a variety of feminist approaches in such areas as moral philosophy, political philosophy, epistemology, philosophy of science, and philosophy of mind. Two hours weekly. (Offered in alternate years but not this year.)

Philosophy – Politics 232 – Philosophy of law, justice and rights

A study of philosophical theories of law, justice and rights. Attention will be given to relevant writings of Hart, Rawls and Dworkin, and to the importance of the Canadian Charter of Rights and Freedoms. Two hours weekly. (Offered this year and in alternate years.) *Staff*

Philosophy 234 – Health care ethics

An investigation of some central ethical issues arising in the health care sector, as they affect the practice and theory of nursing. Topics may include: patient and caregiver rights; informed consent; proxy decision-making; withdrawal of treatment; conscientious objection; reproduction rights; fetal rights; distribution of scarce resources; research involving human subjects. Open to students enrolled in the B.Sc.N. program and to students pursuing a major or a minor in philosophy, with permission of the instructor. Two hours weekly. *Staff*

Philosophy – Politics 235 – The political imagination (see Political Studies)**Philosophy – Computer Science 240H/FA – Symbolic logic (Sc)**

An introductory study of formal logical systems, together with their use in the analysis of various types of arguments. Excludes *Philosophy – Computer Studies 240*. Two hours of lecture weekly, one hour of workshop weekly. *B. J. Hodgson*

Philosophy 245H/WI – Argumentation and rhetoric

The study of the means of arguing and the criteria for their use in different rhetorical situations and intellectual or professional contexts. Special emphasis will be placed on producing and writing argument. Excludes *Arts 201H*. Three hours weekly; seminar followed by workshop. *M. El Komos*

Philosophy 275H/WI – Philosophy of religion

An inquiry into the nature of religion and religious belief, the relations among faith, reason, knowledge and revelation, the analysis of religious language, the mystical claim to direct knowledge of God, the nature of evil, and religion and ethics. Excludes *Philosophy 275*. Two hours weekly. *Staff*

Philosophy – Psychology 277 – Philosophy of mind (Sc)

An introduction to some of the central themes in philosophy of mind. Answers to ontological questions (what kinds of things are minds?) and epistemological questions (can we know that we and others have minds?) will be used to focus discussions concerning personal identity, responsibility for action, multiple personality, animal minds, artificial intelligence. Excludes *Philosophy – Psychology 377H*. Two hours weekly. *B.J. Hodgson*

Philosophy 278H/FA – Philosophy of science (Sc)

A philosophical examination of the construction and validation of scientific theories with special emphasis on the question of whether science has a reliable claim to provide one "objective" truth about the material and human world on the basis of a uniquely "rational" form of inquiry. Two hours weekly. *M. Howes*

Philosophy 279H/FA – Philosophy of art

The philosophy of art concerns itself with questions surrounding the nature of art and the work of art, with the creativity involved in the production and in the interpretation of works, with beauty and aesthetic experience, and with the place art does or perhaps should have in society. Excludes *Philosophy 279*. Two hours weekly. *M. Howes*

Philosophy 282 – East Asian philosophy: China and Japan

A study of major Chinese and Japanese philosophers, including Confucius, Lao Tzu/ Chuang Tzu, Dogen, Nishida and Suzuki. A focus of the course will be the relation between human nature and nature. Two hours weekly. (Not offered this year.)

Philosophy 310 – Early modern philosophy

A study of the important philosophies of the seventeenth and eighteenth centuries, including those of Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume and Kant. Excludes *Philosophy 212*. Two hours weekly. *D. McDermid*

Philosophy 315 – Phenomenology

Themes and texts will be selected from the writings of Husserl, Heidegger, Merleau-Ponty, Ricoeur and others. Two hours weekly. Prerequisite: *Philosophy 214* or permission of instructor. (Offered in alternate years, but not this year.)

Philosophy 316 – Hermeneutics and deconstruction

Themes and texts will be selected from the writings of Heidegger, Gadamer, Habermas, Ricoeur, Derrida, Deleuze, Foucault, Lyotard, Lacan and Nancy. Two hours weekly. Prerequisite: *Philosophy 214* or permission of instructor. (Offered this year and in alternate years.) *E. Angelova*

Philosophy 320 – Metaphysics and epistemology

A study of problems such as the nature of space and time, the legitimation of belief, causation, necessity, universals, theories of truth, personal identity, limits of objectivity, criteria of rationality and irrationality, possible worlds. Two hours weekly. *D. McDermid*

Philosophy – Environmental and Resource Studies 330 – Environmental ethics

(see Environmental and Resource Science/Studies)

Philosophy 335 – Moral and political philosophy

A study of some of the following: the relation between morality and rationality, the notion of freedom in morals and politics, the limits of utilitarianism, and the limits to rights. Excludes *Philosophy 330*. Two hours weekly. *Staff*

Philosophy – Computer Studies 337 – Cyberpersons and cybermorality

A course which enables students to develop their own positions about the most important social and moral problems raised by computers. These include such concerns as whether computers can become moral persons with moral rights, the fragmentation of society into computer "haves" and "have-nots," Internet censorship and software piracy. No formal background is required, but students must be prepared to tackle the formal presentation of certain topics. Two hours weekly. *Staff*

Philosophy – Computer Studies 341H – Logics and logical theories

A look at selected topics in logic, including some of: modal and three-valued logics, the foundations of arithmetic, formal semantics, the theory of rational choice, completeness, soundness and truth. Prerequisite: *Philosophy – Computer Science 240H* or permission of instructor. Two hours weekly. (Offered in alternate years, but not this year.)

Philosophy 378H – Philosophy of language

A study of the nature and structures of language, and an investigation into the relations between languages and thought and between language and the world. Prerequisite: *Philosophy 105* or *Philosophy – Computer Science 240H* or permission of instructor. Two hours weekly. (Offered this year and in alternate years.) *Staff*

Philosophy 390 – Reading course

Students will be encouraged to pursue a special interest, largely through independent study, for full-course credit. Details must be arranged in consultation with the staff in Philosophy by April 30 of the preceding academic year.

Philosophy 391H/FA/WI – Reading course

Students will be encouraged to pursue a special interest, largely through independent study, for half-course credit. Details must be arranged in consultation with the staff in Philosophy by April 30 of the preceding academic year.

Philosophy – Administration 420 – Business ethics (See Business Administration)**Philosophy 421H – Advanced topics in metaphysics and epistemology**

A seminar devoted to in-depth investigation of selected central metaphysical and epistemological themes. Two hours weekly. (Not offered this year.)

Philosophy – Women Studies – Political Studies 430 – Feminists theorize the political: Contemporary feminist philosophy (See Women's Studies)**Philosophy 431H – Advanced topics in value theory**

A study of central themes in value theory, to be chosen among issues in moral theory, aesthetic theory and political theory. Two hours weekly. (Not offered this year.)

Philosophy 441H/FA – Advanced topics in logic and language: Fallacy and mistakes in reasoning

A study of the concept of "fallacy" from Aristotle's *Sophistical Refutations* to modern treatments and an exploration of many of the traditional fallacies in light of recent theoretical literature. Two hours weekly. C. W. Tindale

Philosophy 451H/FA – Kant

A seminar devoted to a close reading of some of Kant's major works. Prerequisite: *Philosophy 310* or permission of instructor. Two hours weekly. E. Angelova

Philosophy 452H/WI – Hegel

A seminar devoted to a close reading of some of Hegel's major works. Prerequisite: *Philosophy 310* or permission of instructor. Excludes *Philosophy 412*. Two hours weekly. Staff

Philosophy 453H/WI – 19th century philosophy: Schopenhauer and early Nietzsche

A study of selected works by Arthur Schopenhauer (1788–1860) and Friedrich Nietzsche (1844–1900). We will examine how Schopenhauer's treatment of key issues in epistemology, metaphysics, aesthetics, and ethics sheds light on the early writings of Nietzsche, who began his philosophical career as an ardent Schopenhauerian. Prerequisite: *Philosophy 310* or permission of instructor. Excludes *Philosophy 412*. Two hours weekly. D. McDermid

Philosophy 454H – 20th century philosophy

A study of some central themes and important philosophers of the 20th century. Prerequisite: *Philosophy 310* or permission of instructor. Two hours weekly. (Not offered this year.)

Philosophy 461H/FA – Major texts I: Wittgenstein

A study of Wittgenstein's *Tractatus Logico-Philosophicus* and selected parts of the *Philosophical Investigations*. Two hours weekly. F. C. McKinnon

Philosophy 462H – Major texts II

A close study of one or more central texts by one or more important philosophers; texts and philosophers to change annually. Prerequisite *Philosophy 461H* or permission of instructor. Two hours weekly. (Not offered this year.)

Philosophy 471H – Advanced topics in philosophy of mind

An in-depth investigation into some of the central issues in philosophy of mind, eg., consciousness, embodiment, reasons for actions, the emotions, free will, zombies, thinking machines, conscious animals. Prerequisite: *Philosophy – Psychology 277* or permission of instructor. Two hours weekly. (Not offered this year.)

Philosophy 490 – Reading course

Students will be encouraged to pursue a special interest, through independent study, for full-course credit. Details must be arranged in consultation with the staff in Philosophy by April 30 of the preceding academic year.

Philosophy 491H/FA/WI – Reading course

Students will be encouraged to pursue a special interest, largely through independent study, for half-course credit. Details must be arranged in consultation with the staff in Philosophy by April 30 of the preceding academic year.

Philosophy 495H – Special topics

A special topic course. (Not offered this year.)

Philosophy 496H/WI – Special topic in philosophy of science: Philosophy of biology

An intensive study of major philosophical questions arising within the field of biology. Areas of concentration include: evolution and human nature, gene versus organism-centred views of evolution, genetic determinism and the developmental systems alternative, reductionism in biology, the ontology of organisms and species, and issues concerning conservation, ecology, and the environment. Two hours weekly. *M. Howes*

Physics

Telephone: (705) 748-1011 ext. 1225

Fax: (705) 748-1652

E-mail: physics@trentu.ca

Web: www.trentu.ca/physics

Professor and Chair of the Department

A. J. Slavin, M.Sc. (Toronto), Ph.D. (Cambridge) (*on leave Fall session*)

Professors

P. C. Dawson, Ph.D. (Victoria) (*on leave 2004-2005*); **W. F. J. Evans**, M.A., Ph.D., D.Sc. (Saskatchewan), F.R.S.C. (*on leave Winter session*); **J. W. Jury**, M.Sc., Ph.D. (Toronto)

Assistant Professors

W.A. Atkinson, M.Sc. (Alberta), Ph.D. (McMaster); **D. R. Patton**, B.Math (Waterloo), Ph.D. (Victoria); **R. Wortis**, B.Sc. (Harvard), M.Sc., Ph.D. (Illinois)

Professors Emeriti

L. C. R. Alfred, M.Sc. (Bombay), Ph.D. (Sheffield); **J. W. Earnshaw**, B.A.Sc. (Toronto), Ph.D. (Cambridge); **R. G. Johnson**, M.Sc. (Queen's), Ph.D. (Liverpool); **J. I. Lodge**, M.A. (Queen's), Ph.D. (Virginia)

Senior Demonstrator

J. Breukelaar, B.Sc. (York), M.Sc. (Trent)

Demonstrator

D. Marshall, B.Sc. (Waterloo)

Conjunct Professors

R. P. Rassool, M.Sc., Ph.D. (Melbourne); **M. N. Thompson**, M.Sc., Ph.D., D.Sc. (Melbourne)

Physics is the most fundamental of the natural sciences. It includes the study of electricity and magnetism, gravitation, electronics, the motion of projectiles and rotating bodies, heat, light and sound, and the interactions between the smallest particles in nature: electrons, protons, neutrons and quarks – the building blocks of all matter. Because of their fundamental nature, the concepts of physics underlie much of modern astronomy, chemistry, biology, medicine and engineering. Discoveries in physics continue to improve space travel, speed up global electronic communications, lead to new products such as ferroelectric computer memories, and invent and improve medical diagnostic techniques such as magnetic resonance imaging (MRI).

Notes

- Physics courses may be taken in any year of a student's program, provided that all prerequisites have been successfully completed.
- For the programs in Chemical Physics, in Science and in Computing & Physics see the relevant sections of the calendar.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in Physics, if they have met the requirements for the joint-major General degree (see below).

BACHELOR OF SCIENCE PROGRAM IN PHYSICS

- see p. 22 for requirements which apply to all undergraduate degree programs.
- *Physics 355H* and *314H* may be counted towards the 400-level credit requirements in the Honours program
- *Mathematics 135H* and *155H* are strongly recommended for the students in the Honours program.
- Students with a B+ average in Mathematics and Physics, and with the permission of the department, may substitute either *Physics 460* or *Physics 462H* (the project courses) for *Physics 461H*. This does not affect the number of credits in Physics required at the 400-level or for the degree as a whole.
- The Honours program satisfies the academic requirements for the Professional Physicist credential by the Canadian Association of Physicists.

The single-major Honours program. At least 10 credits in Physics. The program must include:

- *Physics 100, 202H, 203H, 270H, 312H or 313H, 311H or 314H, 321, 380H, 400, 420, 461H, Physics – Mathematics 205H and 305H*
- 0.5 additional credit in Physics at the 400-level
- 1 additional credit in Physics
- *Mathematics 110, 201H and 202H*

The joint-major Honours program. At least 7 credits in Physics. The program must include:

- *Physics 100, 202H, 203H, 270H, 312H or 313H, 321, 400, Physics – Mathematics 205H and 305H*
- 1 additional credit in Physics at the 400-level
- *Mathematics 110, 201H and 202H*

The single-major General program. At least 6 credits in Physics. The program must include:

- *Physics 100, 202H, 203H, 270H, 312H or 313H, 321, 380H and Physics – Mathematics 205H*
- 1 additional credit in Physics
- *Mathematics 110, 201H and 202H*

The joint-major General program. At least 5 credits in Physics. The program must include:

- *Physics 100, 202H, 203H, 270H, 312H or 313H, 321, 380H and Physics – Mathematics 205H*
- *Mathematics 110, 201H and 202H*

Please consult the academic timetable to determine which of the courses listed will be offered in 2004–2005.

Physics 100 – Introductory physics

Particle dynamics, translational and rotational motion, electricity, magnetism, optics, special relativity. Prerequisite: OAC or 12U Calculus or Algebra, or equivalent (see p. 232) or permission of the department. OAC or 12U credits in Physics and Calculus are recommended, and concurrent enrolment in first-year calculus is strongly recommended. *Mathematics 110* is required for upper-level Physics courses. Three class meetings and three-hour laboratory weekly, tutorial fortnightly. *R. Wortis*

Physics 150 – Introductory astronomy: A non-mathematical treatment

A general science course accessible to all students. Major topics include the night sky, telescopes, the solar system, stars, galaxies, and cosmology. Emphasis will be placed on recent advances such as the discovery of extra-solar planets, the detection of black holes, and the origin and fate of the universe. No prerequisite. Not to be counted towards a major in Physics. One two-hour lecture weekly, plus periodic workshops for astronomical observations. *D. Patton*

Physics 202H/FA – Introductory quantum physics

Special relativity, particle-like aspects of radiation, atomic structure, wave-like properties of matter, Schrodinger equation and applications to one-dimensional systems. Prerequisite: *Physics 100* and *Mathematics 110*. Pre- or co-requisite: *Physics – Mathematics 205H*. Three lectures and three-hour laboratory weekly, tutorial fortnightly.

Physics 203H/WI – Quantum physics

Quantum mechanics of one-electron atoms, magnetic dipole moments and spin, transitions and selection rules, identical particles, excited states of atoms, molecules, nuclear and particle physics. Prerequisite: *Physics 202H*, *Physics – Mathematics 205H* and *Mathematics 201H*. Co-requisite: *Mathematics 202H*. Three lectures and tutorial weekly, three-hour laboratory weekly. A. Slavin

Physics – Mathematics 205H – Ordinary differential equations (see Mathematics and Notes)**Physics – Science 209 – Physical science for Teacher Education**

A survey course with a laboratory component intended for concurrent education students and others who are not majoring in a physical science or mathematics but who expect to go on to a career in teaching. Emphasis is placed on empirical results obtained through experiment and the construction of conceptual models. Not to be counted towards a major in Physics. Not open to students who have declared a Physics major (single or joint) or are concurrently registered in *Physics 100*. Interested students should contact the chair of the Physics department for information. J. Earnshaw

Physic 251H/FA – Life in the universe

An examination of prospects for extraterrestrial life, based on material from disciplines such as astrophysics, planetary science, molecular biology, paleobiology, chemistry and statistics. Topics include the Drake Equation in various guises, the Fermi-Hart Paradox, the effects on life-bearing worlds of giant meteoroid impacts, and the history of life on Earth. Prerequisite: *Physics 150*. Excludes *Physics 250*. Not to be counted toward a major in Physics. Two lectures weekly. (Not offered this year)

Physics 252H/WI – The universe and life

Embedded in the universe lies a life-giving and life-sustaining factor, according to the anthropic cosmological principle. This course will consider whether this is a valid, testable proposition or merely a statement of the obvious fact that the universe must be hospitable to life because we are here to observe it. Prerequisite: *Physics 150*. Excludes *Physics 250*. Not to be counted toward a major in Physics. Two lectures weekly. (Not offered this year)

Physics 270H/WI – Thermal physics

First and second laws of thermodynamics and applications, heat transfer, blackbody radiation, kinetic theory of gases, statistical thermodynamics. Prerequisite: *Physics 100* and *Mathematics 201H*. Co-requisite: *Mathematics 200*. Three lectures weekly, tutorial fortnightly. A. Slavin

Physics – Mathematics 305H – Partial differential equations (see Mathematics and Notes)**Physics – Mathematics 313H/FA – Classical mechanics**

Applied mathematics as found in the classical mechanics of particles. One-dimensional motion; vector differential operators, three-dimensional motion; moving and rotating coordinate systems, central forces, systems of particles. Prerequisite: *Mathematics 110* and *Physics 100* or permission of instructor. Pre- or co-requisite: *Mathematics 200* or *Mathematics 201H* and *202H*. Three lectures and tutorial weekly. Excludes *Physics – Mathematics 312H*. D. Patton

Physics – Mathematics 314H/WI – Advanced classical mechanics

Applied mathematics as found in the classical mechanics of particles, rigid bodies and continuous media. Motion of rigid bodies, Lagrangian mechanics, Hamiltonian mechanics, dynamics of oscillating systems. Prerequisite: *Mathematics 200* and *205H* and *Physics – Mathematics 312H* or *313H*. Excludes *Physics – Mathematics 311H*. Three class meetings weekly. D. Patton

Physics – Computer Science 321 – Electricity and magnetism

Electrostatics, magnetostatics, electric and magnetic properties of matter, Maxwell's equations, electromagnetic wave propagation. Prerequisite: *Physics 100* and *Mathematics 200*. Three class meetings, laboratory or problems session weekly. W. Atkinson

Physics – Computer Science 325H/WI – Electronics

A basic applied course in the electronic circuits most commonly used in laboratory sciences. Circuit theory, test instruments, operational amplifiers, semiconductor theory, measurement sensors, power control, digital circuits, AC circuit theory, filters, DC power supplies, RC timing circuits, amplifiers, oscillators. Prerequisite: *Physics 100* and *Mathematics 110*. Three class meetings weekly, three-hour laboratory weekly. A. Slavin

Physics 355H/WI – Relativity

Special relativity and kinematics: events and spacetime, Minkowski geometry, four vectors, tensors in spacetime. Dynamics: conservation of momentum and energy, covariant equations of motion. General relativity: geometry and space, the curvature tensor, equivalence principle and

curved spacetime, principle of general relativity, metric form of spacetime, Einstein's theory of gravitation. Prerequisite: *Physics 202H* and *Mathematics 200*. Three lectures and tutorial weekly. (Not offered this year.)

Physics 380H/FA – Wave theory

Simple oscillating systems, waves in solids and membranes, acoustic waves in gases, reflection and transmission at a boundary, electromagnetic waves in free space and at surfaces, waves in optical systems. Prerequisite: *Physics 100*, *Mathematics 200* and *Physics – Mathematics 205H*. Three lectures weekly and tutorial fortnightly, three-hour laboratory weekly.

Physics 390, 391H – Reading course

Courses designed to allow advanced students in Physics to pursue independent study under the direction of departmental faculty. These courses will be available only in exceptional circumstances, and with the approval of the Physics department.

Physics 400 – Quantum mechanics

Review of elementary quantum mechanics. States and operators in Hilbert space, Dirac notation, interpretative postulates, representations, symmetry transformations, angular momentum theory, spherically symmetric potentials, approximation methods, scattering theory, identical particles. Selected special topics as time permits. Prerequisite: *Physics 203H*, *Physics – Mathematics 305H*, *Physics – Computer Science 321*. Three lectures and tutorial weekly. *W. Atkinson*

Physics 420 – Electromagnetic theory

Maxwell's equations, the interactions of electromagnetic fields with matter, the relativistic formulation of electromagnetism and its applications. Prerequisite: *Physics – Computer Science 321*, *Physics – Mathematics 305H*.

Physics – Chemistry 422H – Principles and applications of symmetry and group theory (see Chemistry)

Physics 430 – Solid state physics and thermal physics

Review of essential thermodynamics; ensembles: microcanonical, canonical, grand canonical; derivation of occupation numbers, equilibrium considerations, phase space, Liouville's theorem, Boltzmann transport equation. Lattice vibrations and thermal properties of solids, band theory, electron transport, crystallography, crystal binding, semiconductors, magnetism. May be taken in third or fourth year. Prerequisite: *Physics 270H*, *Physics 203H*, *Physics – Mathematics 205H*, *Mathematics 200*. Pre- or co-requisite: *Physics – Computer Science 321*, *Physics – Mathematics 305H*. Excludes *Physics 470H*. (Not offered this year.)

Physics 440 – Nuclear and particle physics

Nuclear properties, forces, models and reactions; accelerators, detectors; fission, fusion, medical physics; high energy physics including elementary particles and their composition and interactions; quarks and gluons. May be taken in the third or fourth year. Prerequisite: *Physics 203H*, Pre- or co-requisite: *Physics – Mathematics 305H*, *Physics – Computer Science 321*. *J. Jury*

Physics 460, 462H – Project course

An experimental or theoretical project on some topic of advanced physics. Past projects have included construction of a laser, field emission electron microscopy, atomic potential theory, wind turbine testing, surface physics, high temperature super-conductivity, etc. Projects are selected in consultation with members of the department; students must obtain approval for the project on the form provided, by the preceding March. An overall average of at least 77% in physics and mathematics will normally be required.

Physics 461H – Advanced laboratory

This course provides the opportunity for advanced laboratory work in several areas of physics. Prerequisite: All required courses at the 100-, 200- and 300-levels. *J. Breukelaar and faculty*

Physics 470H/FA – Statistical and thermal physics

Review of essential thermodynamics; ensembles: microcanonical, canonical, grand canonical; derivation of occupation numbers, equilibrium considerations, phase space, Liouville's theorem, Boltzmann transport equation. Prerequisite: *Physics 270H*, *Physics 203H*, *Physics – Mathematics 205H*, *Mathematics 200*. Pre- or co-requisite: *Physics 321*, *Physics – Mathematics 305H*. Excludes *Physics 430*. (Not offered this year)

Physics 490, 491H – Reading course

Courses designed to allow advanced students in Physics to pursue independent study under the direction of departmental faculty. These courses will be available only in exceptional circumstances, and with the approval of the Physics department.

Political Studies

Telephone: (705) 748-1011 ext. 1430
Fax: (705) 748-1047

E-mail: politics@trentu.ca
Web: www.trentu.ca/politics

Chair of the Department

To be named

Professors

D. R. Morrison, M.A. (Saskatchewan), D.Phil. (Sussex); **M. C. Smith**, B.A. (McGill), M.A., Ph.D. (Yale); **D. Torgerson**, B.A. (California-Berkeley), M.E.S. (York), M.A., Ph.D. (Toronto) (*on leave 2004-2005*)

Associate Professors

J. D. Driscoll, M.A., Ph.D. (Queen's); **M. Neufeld**, B.A. (Waterloo), M.A., Ph.D. (Carleton); **A. Pickel**, M.A. (Guelph), Dipl.Pol. (Berlin), Ph.D. (York)

Assistant Professors

F. Baban, Ph.D. (Carleton); **N. Changfoot**, B.A. (York), M.A. (Carleton), Ph.D. (York); **D. Hall**, B.A. (Trent), M.A. (York), Ph.D. (Cornell)

Professors Emeriti

M. P. Doxey, B.Sc., Ph.D. (London); **M. Gunther**, B.A. (Witwatersrand), Ph.D. (North Carolina); **D. Kettler**, M.A., Ph.D. (Columbia); **K. R. V. Lyon**, Ph.D. (British Columbia); **J. Wearing**, B.A. (Western Ontario), M.A. (Toronto, Oxford), D.Phil. (Oxford)

Conjunct Professor

S. G. D. Smith, B.A. (McGill), M.A., B.Litt. (Oxford), D.Litt. (Trent)

The department provides for general study and for concentration in one or more fields – global politics, Canadian politics and political theory. All three major fields of political studies are interconnected through four overlapping thematic clusters: (1) institutions, law and policy; (2) political economy; (3) political culture and identity; and (4) alternative politics – allowing for a large variety of combinations for individual study.

Associated Faculty

Canadian Studies: **D. Bhandar**, **B. Palmer**, **J. Struthers**. *Environmental & Resource Science/ Studies:* **S. Bocking**, **R. Paehlke**. *International Development Studies:* **E. Helleiner** (*on leave 2004-2005*), **C. Huxley**. *Native Studies:* **M. Dockstator**, **D. Newhouse**. *Philosophy:* **E. Stavro**. *Sociology:* **J. Conley**, **C. Huxley**. *Women's Studies:* **M. Hobbs**, **C. O'Manique**, **E. Stavro**.

Revision to requirements for the Honours degree in Political Studies

Beginning in the 2001–2002 academic year the Honours degree in Political Studies consists of 20 (rather than 19) credits. This change took effect with students selecting their majors after the start of the 2001–2002 academic year, and does not apply to any students who previously declared a major in Political Studies.

Notes

- *Politics 100* is highly recommended for all upper level courses in Political Studies.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in Political Studies, if they have met the requirements for the joint-major General degree (see below).
- Further information on the faculty members, course offerings and general orientation of the department may be obtained at the departmental website, www.trentu.ca/politics.

BACHELOR OF ARTS PROGRAM IN POLITICAL STUDIES

- see p. 22 for requirements which apply to all undergraduate degree programs.
- Admission to 200-level courses requires completion of four credits or permission of the chair of the department.
- Admission to 300-level courses requires completion of two 200-level courses in Political Studies, or permission of the instructor
- Political Studies majors must complete at least two of three second-year core courses (*Politics 201, 220, 235*).

- Successful completion of five credits in Political Studies, including one credit in political theory (*Politics 235* or *333*) or permission of instructor, is a prerequisite for all 400-level courses.
- The Honours program in Political Studies must include one credit in political theory (*Politics 235* or *333*).
- Students interested in the possibility of registering for a reading course (*Politics 390, 391H, 392H, 393H* or *490, 491H, 492H, 493H, 494H*), internship (*Politics 487, 490*) or thesis (*Politics 402*) should check with the department regarding prerequisites and application procedures.

The single-major Honours program. At least 9 credits in Political Studies, including:

- at least 2 of *Politics 201, 220* or *235*
- 2 credits at the 300-level
- 3 credits at the 400-level
- 2 additional credits
- at least 1 of the 9 credits in political theory (*Politics 235* or *333*)

The joint-major Honours program. At least 7 credits in Political Studies, including:

- at least 2 of *Politics 201, 220* or *235*
- 2 credits at the 300-level
- 2 credits at the 400-level
- 1 additional credit
- at least 1 of the 7 credits in political theory (*Politics 235* or *333*)

The single-major General program. At least 6 credits in Political Studies, including:

- at least 2 of *Politics 201, 220* or *235*
- 2 credits at the 300-level
- 2 additional credits

The joint-major General program. At least 5 credits in Political Studies, including:

- at least 2 of *Politics 201, 220* or *235*
- 2 credits at the 300-level
- 1 additional credit

Please consult the academic timetable and department website for any changes in course offerings.

Politics 100 – Governance and globalization. Politics in the 21st century

Introduction to the study of politics in the age of globalization, using films, literature and political writings. Focused on current public controversies, social change, Canadian and global politics and how our own personal lives fit into the larger picture. *M. Neufeld*

Politics – Native Studies 200 – Politics and Aboriginal communities (see Native Studies)

Politics – Canadian Studies 201 – Canadian politics

This course introduces students to the institutions of Canadian government and politics and to some of the ideas, issues and identities that have structured and shaped Canadian political life. Students are encouraged to think about contemporary political issues, institutions and representation in term of shifting socio-economic relations of power. *N. Changfoot*

Politics – Environmental & Resource Studies 210H/WI – Environmental science and politics
(see Environmental & Resource Science/Studies.)

Politics 220 – Global politics

The global system and its evolution with a survey of different approaches to analysis. Issues include economic globalization, democratization, international organization, security, civil society, human rights, social movements and nationalism. (Support course for International Development Studies.) *F. Baban and A. Pickel*

Politics – Canadian Studies – History 221H – “Empire Ontario” 1867-1945 (see Canadian Studies)

Politics – Canadian Studies – History 222H – Ontario since 1945: From the “common good” to “common sense” (see Canadian Studies)

Politics – Philosophy 232 – Philosophy of law, justice and rights (see Philosophy)

Politics – Philosophy 235 – The political imagination

Political thought as it appears in a diversity of sources – e.g., literature, film, theatre – as well as in established texts of political theory. With the 20th century and contemporary politics forming a point of reference, the course opens a particular route of access to both past and present political thought. Excludes *Politics 335*. *E. Stavro*

Politics – Women's Studies – Canadian Studies 237H – Women and the law (see Women's Studies)**Politics – Canadian Studies – Women's Studies 238H – Women and the criminal justice system** (see Women's Studies)**Politics – Canadian Studies – Sociology 300 – Reading the social: Space, difference, and power in Canada** (see Canadian Studies)**Politics – Native Studies 302 – Aboriginal governance** (see Native Studies)**Politics – Canadian Studies – Sociology 305H – Society and politics in Quebec** (see Canadian Studies)**Politics – Canadian Studies 309 – Law and constitutional issues** (see Canadian Studies)**Politics – Canadian Studies – Environmental & Resource Studies 310 – Public policy and the Canadian environment** (see Environmental & Resource Science/Studies)**Politics 320H – Ordering world politics I: U.S. foreign policy in the 20th century and beyond**

This course aims to provide a critical perspective on the efforts to construct and regulate the global order represented by U.S. foreign policy. A theoretically informed review of the historical record is used to achieve an understanding of current trends. Recommended: *Politics 220*. Excludes *Politics – Canadian Studies 320*. (Not offered this year.)

Politics – Canadian Studies 321H/FA – Ordering world politics II: Canadian foreign policy in the 20th century and beyond

This course aims to provide a critical perspective on the efforts to construct and regulate the global order represented by Canadian foreign policy. A theoretically informed review of the historical record is used to achieve an understanding of current trends. Recommended: *Politics 220*. Excludes *Politics – Canadian Studies 320*. *M. Neufeld*

Politics – International Development 322H/FA – Global political economy (see International Development Studies)**Politics – Sociology 323– Nationalism and political order in global perspective**

Why nationalism has survived and revived under globalization; how ethnicity is politicized and national identities constructed; nationalism's positive and negative forms and its relationship with democratic values. The course incorporates philosophical, historical, sociological, anthropological and economic approaches to explain and assess varieties of nationalism. Recommended: *Politics 220*. Excludes *Politics – Sociology 323H*. *A. Pickel and F. Baban*

Politics 324H/VI – European integration

Examines the most ambitious and far-reaching transnational project of political integration, the European Union. History, problems of governance, democracy, further integration and expansion to the East. Recommended: *Politics 220*. *A. Pickel*

Politics 325H – Post-communist transformation

Studies the political and economic transitions of formerly Communist countries in comparative and global perspective. Includes Central and Eastern Europe, the former Soviet Union, China, Vietnam and Cuba. Recommended: *Politics 220*. (Not offered this year.)

Politics – Canadian Studies 326H/FA– Politics of North American economic integration

Recent inter-state agreements, such as the North American Free Trade Agreement, symbolize the increasing integration – economically, socially, and militarily – of the countries within the North American region: Canada, the United States and Mexico. This course examines the politics of North American integration in the context of the evolving global political economy. Recommended: *Politics 220*. (Support course for International Development Studies.) *Staff*

Politics – International Development 327 – Political economy of Eastern Asia

A survey of the historical development of and contemporary issues in Northeast and Southeast Asian political economy. Topics include colonialism, state formation, industrialisation, postwar nationalism and developmentalism, regionalisation, and the financial crises of the late 1990s. Prerequisite: *Politics 220* or permission of instructor. *D. Hall*

Politics 333 – Political theory

A survey of some classic texts in the history of western political thought with an emphasis on problems of interpretation and the ways in which a tradition of political discourse determines our conceptions of the political and legitimates political activity. Excludes *Politics 233*. (Not offered this year.)

Politics 334H/FA – Democracy in theory and practice

In a world where virtually everyone claims to be a democrat, it is easily forgotten that democracy has not always been fashionable. This course examines modern and contemporary struggles for democracy by focusing on developments in democratic theory and relating these to particular contexts of democratic practice. Excludes *Politics 334*. *E. Stavro*

Politics – Women's Studies 336H – The body politic/the body in politics

Liberal political discourse assumes the polity emerges from the consent of rational autonomous actors. This will be challenged by focusing on debates concerning power as sovereignty, dominant class interest, governance; efforts to include the woman's body in politics through care, contract, desire and citizenship will be explored. Excludes *Politics – Women's Studies 336*. (Not offered this year.)

Politics – Environmental & Resource Studies – International Development Studies 360 – Environment and development (see Environmental & Resource Science/Studies)**Politics – Canadian Studies 362H – Democratic strategy and public policy**

Is the enhancement of democracy in today's world best served by a strategy of pure resistance designed to avoid co-optation by the powers that be? Or does the path of democracy lead through established policy processes? This course examines a range of key concepts and cases – involving Canada and other countries. Recommended: *Politics 201, 334H*. Excludes *Politics – Canadian Studies 362*. (Not offered this year.)

Politics – Canadian Studies 366H/FA – Canadian political economy

This course interrogates the political economy tradition in Canada from its roots to more contemporary approaches to examine the dynamics of Canadian economic, political and social development. It addresses questions associated with the development of a resource based economy, nationalism and sovereignty, community, and continental integration. Prerequisite: *Politics 201* or *Politics 220* or permission of instructor. *Staff*

Politics – Canadian Studies – Women's Studies 367 – Women, law and politics

This course examines the relationship between gender, law, and public policy and the political possibilities and limitations of the law and public policy for women. Students are encouraged to reflect upon a range of political goals pursued by different groups of women in select areas of law and public policy. *N. Changfoot*

Politics – Sociology 382H – Protest, contention and social movements (see Sociology)**Politics – Women's Studies 388 – The politics of gender and international relations** (see Women's Studies)**Politics 390, 391H, 392H, 393H – Reading course in politics**

Open only to students majoring in Politics and designed to provide an opportunity for more intensive examination of material studied in other politics courses. Periodic tutorials. Prerequisite: permission of the department, but see Notes.

Politics 395, 396H, 397H, 398H – Special topics**Politics – Canadian Studies – Women's Studies 400 – Advanced studies in feminism and social justice: Women, the welfare states and globalization in Canada** (see Women's Studies)**Politics 402 – Honours thesis**

A scholarly project on a specific topic to be developed and carried out under the supervision of a member of the department and for which a double credit will be awarded. See Notes.

Politics – Canadian Studies 405 – Contemporary Canadian problems

A project-oriented course which focuses on a set of selected Canadian political problems. Students will have the opportunity to carry out a research project in an area of their choosing. Seminars. Prerequisite: *Politics 201* or *Politics 220* or permission of instructor. Excludes *Politics – Canadian Studies 405H*. *Staff*

Politics 420H/WI – Politics of globalization: Thinking critically, thinking globally

"Thinking globally" has become a watchword of living in an era of globalization. Drawing on current theories of world politics, as well as insights afforded by social and political theory, this course explores the issue of how to think critically in global terms. Prerequisite: *Politics 220* or permission of instructor. *M. Neufeld*

Politics – International Development 423H – Global civil society (see International Development Studies)**Politics – International Development – Canadian Studies 424 – Canada, globalization, and international development** (see International Development Studies)**Politics – International Development 425H – Topics in global political economy: Money and finance** (see International Development Studies)**Politics – International Development 427H/WI – Democracy and the global order**

A study of the meaning and the prospects for democracy in the age of globalization in light of the constraints and opportunities for democratic institutions and practices imposed by the international order, global capitalism, political culture and ideology. Students develop their own research projects. *F. Baban*

Politics 428 – Government and politics in the Middle East

The course examines the main issues and actors (state and non-state) of the contemporary Middle East. It focuses on the importance of political, social, economic and ideological factors in the context of such issues as the resilience of authoritarianism, gender, the rise of civil society and the resurgence of Islamic activism. *F. Baban*

Politics – Philosophy – Women's Studies 430 – Feminists theorize the political: Contemporary feminist philosophy

Themes and texts will be selected from the writings of Simone de Beauvoir, Judith Butler, Drucilla Cornell, Nancy Fraser, Luce Irigaray, Julia Kristeva, Chantal Mouffe and Iris Young. *E. Stavro*

Politics 432 – The politics of recognition

Identity and rights in the politics of late-modern societies: the interplay between older forms of politics and the law; challenges of new conceptions of the self and society such as gender politics and the women's movement, native citizenship, Charter politics, Québécois nationalism and multiculturalism. *J. Driscoll*

Politics 433H – Theories of power and resistance

An examination of challenges to conventional liberal discourse advanced in the theories of power and resistance that we find in a range of figures, from Marx to Nietzsche to more contemporary writers such as Foucault and Irigaray. We will consider the subject amid the forces that structure a field of political action. Excludes *Politics 433*. (Not offered this year.)

Politics – Canadian Studies – History 435 – History of the radical book in Canada 1860-1970 (see Canadian Studies)**Politics – Canadian Studies 440 – Space, power and citizenship** (see Canadian Studies)**Politics – Environmental & Resource Studies – Canadian Studies 460H – Public policy in global perspective** (see Environmental & Resource Science/Studies)**Politics – Environmental & Resource Studies – International Development Studies 461H – Global environmental policy** (see Environmental & Resource Science/Studies)**Politics – Canadian Studies – History 477 – Studies in Canadian social policy** (see Canadian Studies)**Politics 487 – Community-based research project**

Students are placed in research projects with community organizations in the Peterborough area. Each placement is supervised jointly by a faculty member and a representative of a community organization. For details, see Community-Based Education program (p. 206). Prerequisite: at least 10 credits, with an overall average of at least 75%.

Politics 490, 491H, 492H, 493H, 494H – Reading course in politics

Open only to students in the fourth year of a Politics major program. Periodic tutorials. Alternatively a student may do an internship, involving field and written work in an area related to politics. For further details, see the department website. Prerequisite: permission of the department, but see Notes.

Politics 495 – Special topic: Current issues in globalization: The recent literature

The globalization debate continues to generate new insights and controversial claims. We will discuss a selection of recent outstanding works on political, economic and cultural aspects of globalization. Advanced course for students with a solid foundation in international relations and global political economy. Completion of *Politics 220* plus at least one 300 level course in global politics highly recommended. Above average reading and writing demands. Excludes *Politics 495H*. A. Pickel.

Politics 496H, 497H, 498H – Special topics

Psychology

Telephone: (705) 748-1011 ext. 1535

Fax: (705) 748-1580

E-mail: psychology@trentu.ca

Web: www.trentu.ca/psychology

Associate Professor and Chair of the Department

J. B. Aubrey, M.Sc., Ph.D. (Alberta)

Associate Professor and Canada Research Chair

J. D. A. Parker, B.A. (Simon Fraser), M.A., Ph.D. (York)

Professors

D. J. Kennett, B.A., Ph.D. (McMaster); **G. T. Reker**, B.A. (McMaster), M.A.Sc., Ph.D. (Waterloo);

C. T. Smith, B.Sc. (Manitoba), M.A., Ph.D. (Waterloo); **G. Winocur**, M.A. (Manitoba), Ph.D. (Waterloo)

Associate Professors

F. A. Bleasdale, B.A. (Toronto), M.A., Ph.D. (Western Ontario); **D. G. Lowe**, B.A. (McMaster), M.A., Ph.D. (Waterloo); **E. Scharfe**, B.A. (Western Ontario), M.A., Ph.D. (Simon Fraser) (on sabbatical 2004-2005); **C. F. Sproule**, M.A. (Toronto); **P. Watson**, M.A., Ph.D. (Western Ontario)

Assistant Professors

A. Archer, B.A. (Trent); B.Ed. (Nipissing), M.Ed. (Western), Ph.D. (Toronto); **J. B. Bauer**, M.A., Ph.D. (Waterloo); **R. Coughlan**, M.A., Ph.D. (Victoria); **K. Peters**, M.A., Ph.D. (British Columbia); **B. Smith-Chant**, B.A. (Trent), M.A., Ph.D. (Carleton); **L. J. Summerfeldt**, M.A., Ph.D. (York)

Lecturer

T. DeCicco, B.Sc. (Manitoba), M.Sc. (Trent); **L. Kerr**, B.Sc., M.Sc. (Carleton), Ph.D. (British Columbia)

Professors Emeriti

C. H. Ernest, B.A. (Saskatchewan), M.A., Ph.D. (Western Ontario); **P. T. P. Wong**, B.A. (Carleton), M.A., Ph.D. (Toronto)

Conjunct Professors

W. Ammons, M.A., Ph.D. (Toronto); **I. D. R. Brown**, B.A. (Queen's), M.A. (Waterloo), Ph.D. (Toronto); **M. J. Reed**, M.A., Ph.D. (York)

Psychology is defined as the scientific study of behaviour and the mind. As such, Psychology provides insight into an incredibly wide variety of questions relevant to human existence – questions as diverse as why newborn infants seem able to respond to the emotional tone of their caregiver's voice, or why we underestimate our own personal risk of accidents or assaults while overestimating the risks that others take, or whether women tend to make better labour negotiators than men, or even how we understand these words you are reading right now. Psychology is a scientific discipline with a multitude of practical applications: it deals with every aspect of our lives, and in its application of scientific methods to questions of human concern, it helps us to better understand how and why people act, think and feel the way they do. The Psychology program at Trent ensures that students acquire research skills and a broad-based background in the basic content of the discipline, and that they have the opportunity at upper levels to focus on more specialized topics and to become involved in original research.

Notes

- C- (60%) or higher in *Psychology 101* is a prerequisite for all upper level Psychology courses.
- A Grade 12 Mathematics course is strongly recommended for students who plan to major in Psychology.
- All courses in Psychology fulfil University science course requirements for the B.Sc.

- Any course involving work with live vertebrate animals requires the Animal Care Course which is described on p. 24 of the calendar. The Animal Care Course requirement is indicated in some course descriptions but may also apply to others. Check with the department secretary or course instructor if in doubt.
- For non-majors taking courses where *Psychology 215* is a prerequisite, a statistics course in another discipline may be substituted, but only if the permission of the department has been granted.
- Advanced Topics courses change from year to year. A preview of Advanced Topic courses for 2005-06 is published in the department of Psychology Student Handbook, available in March, 2004 (department office and website, www.trentu.ca/psychology)
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in Psychology, if they have met the requirements for the joint-major General degree in Psychology (see below).

BACHELOR OF ARTS AND BACHELOR OF SCIENCE PROGRAMS IN PSYCHOLOGY

- see p. 22 for requirements which apply to all undergraduate degree programs.
- There are two Honours degrees in Psychology, the course option and thesis option. For the requirements see below.
- The Psychology department offers both a B.A. and a B.Sc. degree. The B.Sc. differs from the B.A. only in the requirement for a minimum number of science credits (see below).
- Students completing the major or joint-major B.Sc. in Psychology require *Psychology 215* plus 10 additional science credits for the General degree or 13 additional science credits for the Honours degree.
- Most courses at the 200- and 300-level in the department are assigned to one of two categories. Students in the single-major or joint-major program in Psychology must include in their program a range of courses chosen from each category, as indicated in the requirements for the various degree options.

A2	A3	B2	B3
202H	303H	236H	300H
222H	307H	240H	304H
225H	323H	272H	308H
227H	334H	281H	337H
	352H		341H
	366H		343H
	372H		363H
	375H		373H
	376H		381H
	379H		383H
			384H

- All students intending to enter the single-major or joint-major program in Psychology should consult with a Psychology departmental advisor before choosing their courses: Trudy Kirschner (tkirschner@trentu.ca) or the chair of the department.
- *Psychology 333* will not be offered after July 1, 2005. Students who have completed *Psychology 333* prior to that date may count it in lieu of *Psychology 315* as fulfilling course-based Honours program requirements.

The single-major Honours program (course option). At least 10 credits in Psychology. The program must include:

- *Psychology 101* and *215*
- *Psychology 315* or *333*
- 0.5 credit from each of A2 and B2
- 1 credit from each of A3 and B3
- 1 credit in Psychology at the 400-level

- 2 additional credits in Psychology beyond the 200-level
- 1 additional credit in Psychology
- for the B.Sc., 14 science credits in the program as a whole

The joint-major Honours program (course option). At least 8 credits in Psychology. The program must include:

- *Psychology 101* and 215
- *Psychology 315* or 333
- 0.5 credit from each of A2 and B2
- 1 credit from each of A3 and B3
- 1 credit in Psychology at the 400-level
- 1 additional credit in Psychology beyond the 200-level
- for the B.Sc., 14 science credits in the program as a whole

The single-major Honours program (thesis option). At least 10 credits in Psychology. The program must include:

- *Psychology 101, 215, 315* and 402D (double-credit thesis)
- 0.5 credit from each of A2 and B2
- 1 credit from each of A3 and B3
- 1 additional credit in Psychology at the 400-level
- 1 additional credit in Psychology beyond the 200-level
- for the B.Sc., 14 science credits in the program as a whole

The joint-major Honours program (thesis option). At least 8 credits in Psychology. The program must include:

- *Psychology 101, 215, 315* and 401 (single-credit thesis)
- 0.5 credit from each of A2 and B2
- 1 credit from each of A3 and B3
- 1 additional credit in Psychology at the 400-level
- for the B.Sc., 14 science credits in the program as a whole

The single-major General program. At least 6 credits in Psychology. The program must include:

- *Psychology 101* and 215
- 0.5 credit from each of A2 and B2
- 0.5 credit from each of A3 and B3
- 1 additional credit in Psychology beyond the 200-level
- 1 additional credit in Psychology
- for the B.Sc., 11 science credits in the program as a whole

The joint-major General program. At least 5 credits in Psychology. The program must include:

- *Psychology 101* and 215
- 0.5 credit from each of A2 and B2
- 0.5 credit from each of A3 and B3
- 0.5 additional credit in Psychology beyond the 200-level
- 0.5 additional credit in Psychology
- for the B.Sc., 11 science credits in the program as a whole

Please consult the academic timetable and department website for any changes in course offerings.

Psychology 101 – Introduction to psychology

A survey of the major areas of psychology, including its historical development, the methods of the science, biological and perceptual processes, altered states of consciousness, learning, memory, language development, intelligence, personality, abnormal behaviour and social determinants of behaviour. Two-hour lecture weekly; two-hour lab fortnightly. A full-year web-based version of *Psychology 101* and a Headstart version starting in January are also offered; for more information, contact the department.

Psychology 202H/FA/WI – Psychology of language

A survey of research and theory on psycholinguistics and the psychology of language. Topics covered include syntactic theory, the representation of meaning in language, the relation between cognition and language, language acquisition in children, individual differences in language use, bilingualism and language disorders. Prerequisite: C- (60%) or higher in *Psychology 101*. Excludes *Psychology 302H, 365, 4952*. Two-hour lecture weekly; seminar fortnightly.

Psychology 215 – Basic research methods and statistics

An introduction to methodological, statistical and computer techniques in psychological research and the application of these techniques to empirical research in the discipline. (For Psychology majors and joint-majors, this course fulfils the Mathematics requirement for the B.Sc.)

Prerequisite: C- (60%) or higher in *Psychology 101*. Three-hour lecture weekly; one-hour workshop/lab weekly.

Psychology 222H/FA/WI – Introduction to physiological psychology

Basic neuroanatomy of the mammal with emphasis on the human nervous system. Examination of sensory and motor systems as well as the physiological mechanisms of behaviour, behaviour disorders and memory. Prerequisite: C- (60%) or higher in *Psychology 101*. Excludes *Psychology 221*. Two-hour lecture weekly, one-hour demo fortnightly.

Psychology 225H/FA/WI – Introduction to cognitive psychology

This course focuses on humans as processors of information. Topics include perception, attention, memory, knowledge, consciousness and reasoning. Prerequisite: C- (60%) or higher in *Psychology 101*. Excludes *Psychology 306* and *351*. Two-hour lecture weekly; two-hour lab fortnightly.

Psychology 227H/FA/WI – Introduction to learning

An examination of the fundamental concepts of learning in humans and animals. Emphasis is placed on empirical methods of investigation. Applications to choice behaviour, self-control and education are included. Prerequisite: C- (60%) or higher in *Psychology 101*. Excludes *Psychology 351* and *320*. Two-hour lecture weekly; seminar and lab fortnightly.

Psychology 236H/FA/WI – Introduction to personality theory

A cross-section of personality theories and theorists will be examined: psychoanalytic, neopsychoanalytic, trait, phenomenological, behavioural and social-learning. Prerequisite: C- (60%) or higher in *Psychology 101*. Excludes *Psychology 235*. Two-hour lecture weekly; seminar fortnightly.

Psychology 240H/FA/WI – Introductory abnormal psychology

This course is designed to provide students with a background in theoretical, empirical, and conceptual issues central to the field of abnormal psychology, and to introduce students to contemporary diagnostic frameworks. Specific attention will be paid to the role of prevailing theoretical perspectives in the understanding, investigation, and treatment of psychopathology. Prerequisite: C- (60%) or higher in *Psychology 101*. Excludes *Psychology 340*. Two-hour lecture weekly; seminar fortnightly.

Psychology 272H/FA/WI – Introduction to social psychology

An examination of the foundations of social psychology including attribution processes, social cognition, attitudes, prejudice, attraction, aggression, helping behaviours, groups and conflict. Prerequisite: C- (60%) or higher in *Psychology 101*. Excludes *Psychology 271*. Two-hour lecture weekly; seminar fortnightly.

Psychology – Philosophy 277 – Philosophy of mind

(see Philosophy) Not counted as part of the minimum requirements for the General or Honours degrees in Psychology.

Psychology 281H/FA/WI – Child development

A survey course dealing with the theoretical and empirical research bases of child development and child psychology as a scientific discipline. Topics covered include theories of development, research methods, biological foundations, basic psychological processes in children, cognitive and intellectual development, social and emotional development, and family and peer influences on children's behaviour. Prerequisite: C- (60%) or higher in *Psychology 101*. Excludes *Psychology 280*. Two-hour lecture weekly; workshop fortnightly.

Psychology 300H/WI – Psychology of human relationships

An examination of the development, maintenance and breakdown of friendship and intimate relationships with emphasis upon individual differences in both quality and quantity of these relationships. Prerequisite: *Psychology 271* or *272H*. Two-hour lecture weekly; seminar weekly.

Psychology 303H/WI – Emotion

A survey of theory and research on human and animal emotion. Topics covered include the definition, measurement, evolution, development, control, physiology and neurology of emotions, as well as the connections between emotions, cognitions and consciousness. Prerequisite: *Psychology 225H or 306 or 351*. Excludes *Psychology 396H*. Three-hour lecture/lab weekly.

Psychology – Women's Studies 304H/WI – Psychology of gender

An examination of models of gender role orientation and the relationship of gender roles to social cognition and social behaviours with particular emphasis upon physical and mental well being. Prerequisite: *Psychology 271 or 272H*. Two-hour lecture weekly; seminar weekly.

Psychology 307H/FA – Reading processes

A research-oriented examination of the reading process seen as coordinating print and meaning, with an emphasis on the relation between reader and text. Topics covered include psycholinguistic theory, research methodologies, letter and word recognition, text comprehension, the acquisition of reading skill, individual differences in reading ability, and reading disorders. Prerequisite: *Psychology 215* and one of *Psychology 202H, 225H, 306, 351*. Excludes *Psychology 365, 4952*. Three-hour lecture/lab weekly.

Psychology 308H/FA – Psychology of education

An examination of the history, research methodology, theories of learning, structure of intellect, and assessment procedures within the field of educational psychology. This course will focus on the current, and sometimes controversial, issues which are at the forefront of research on and discussions of the relationship between psychological principles and educational practice. Prerequisite: One Psychology 200-level credit other than *Psychology 215*. Excludes *Psychology 301*. Two-hour lecture weekly; seminar fortnightly.

Psychology 315 – Advanced statistics and research design

An intensive study of the application of statistical techniques to a variety of research questions and experimental designs. Focus is on the laws of probability, techniques of analysis of variance and covariance, correlation, regression and multivariate procedures. Prerequisite: C- (60%) or higher in *Psychology 215*. Three-hour lecture weekly; two-hour workshop weekly; seminar fortnightly.

Psychology 323H/WI – Applied learning

The application of principles of learning and motivation to practical situations including teaching, child rearing, public institutions and everyday life settings. The two areas of concentration are: a) basic principles of learning and b) their application. Prerequisite: *Psychology 227H*. Excludes *Psychology 320*. Two-hour lecture weekly; seminar fortnightly.

Psychology 333 – Psychometrics

A detailed intensive examination of the principles of test construction and development. Special topics include criterion keying and factor analysis. A number of intelligence, personality and diagnostic tests are examined in some depth. Students are expected to have acquired a working knowledge of the STATISTICA computer program. Prerequisite: C- (60%) or higher in *Psychology 215*. Three-hour lecture/lab weekly. (Not offered after July 1, 2005)

Psychology 334H – Individual differences in abilities

This course examines the nature of intelligence and specific abilities and their relation to other behaviours. Topics include a discussion of selected historical figures and psychometric theories of intelligence; information processing approaches to understanding the nature of abilities; the behaviour genetics of intelligence/abilities; and nature-nurture issues. Prerequisite: *Psychology 215* and 0.5 credit from A2 category. Strongly recommended: *Psychology 333*. Excludes *Psychology 330, 430*. Two-hour lecture weekly; seminar fortnightly. (Not offered this year)

Psychology – Biology 336H/WI – Behavioural ecology

Not counted as part of the minimum requirements for the General or Honours degree in Psychology. See Biology.

Psychology 337H– Personality research

This course is designed to acquaint students with contemporary research in the personality psychology area. Particular emphasis will be placed on the following topics: the biological basis of personality, personality and intelligence, personality and health, personality and psychopathology, and personality stability and change. Prerequisite: *Psychology 236H*. Excludes *Psychology 235*. Two-hour lecture weekly; seminar fortnightly. (Not offered this year)

Psychology 341H/FA/WI – Advanced abnormal psychology

This course is designed to explore in depth a cross-section of basic topics in abnormal psychology with emphasis upon specific diagnostic categories. Topics include anxiety, somatoform, mood, psychotic, and substance-related disorders. Clinical features, theoretical models of their development, maintenance, and treatment, and associated paradigms and findings will be addressed. Prerequisite: *Psychology 240H*. Excludes *Psychology 340*. Two-hour lecture weekly; seminar fortnightly.

Psychology 343H/FA/WI – Health psychology

Examines current views on the interface between psychosocial processes and physical health, focussing on theory-based psychological research and the practice of health psychology. Topics include models of health and illness, research methods employed, the impact of chronic illness on psychological well-being, and lifestyle and risk factors in various medical disorders. Prerequisite: *Psychology 215* and one other 200-level Psychology credit. Excludes *Psychology 353, 450*. Two-hour lecture weekly; seminar fortnightly.

Psychology 352H – Memory

This course examines the processes and strategies underlying memory phenomena in humans, including their application to real-world events. Topics considered include imagery; working memory; memory as a constructive process; emotion and memory; implicit/explicit memory; memory disorders; and abilities and memory. Prerequisite: *Psychology 215* and *225H*. Excludes *Psychology 306* and *351*. Two-hour lecture weekly; seminar fortnightly. (Not offered this year)

Psychology 363H/WI – Adult development and aging: Psychosocial perspectives

Examines theory and research of aging within the framework of the life span perspective. Topics to be covered include theories of aging, lifestyle factors, personality, stress and coping, social resources, mental attitudes (optimism and personal meaning), death attitudes, and Alzheimer's disease. Prerequisite: *Psychology 280* or *281H*. Excludes *Psychology 380, 480*. Two-hour lecture weekly; seminar fortnightly.

Psychology 366H/FA – Sensation and perception

An intensive examination of how humans (and other species) perceive information presented to the senses. Topics include mechanisms of perception, detection, discrimination and pattern recognition. Psychophysical measurement, colour and spatial vision, hearing, taste, smell, and touch may be covered. Anatomical and physiological structures that support the senses are discussed. Prerequisite: *Psychology 215*; and 0.5 credit from A2 category. Excludes *Psychology 306*. Three-hour lecture/lab weekly.

Psychology 372H/FA/WI – Sleep and arousal

A description of the states of sleep using electrophysiological, physiological and behavioural terms, exploration of the nature of normal sleep in various species, examination of the nature of sleep disorders, consideration of the various theories of the functions of sleep. Prerequisite: 0.5 credit from A2 category. Two-hour lecture weekly; seminar fortnightly.

Psychology 373H/WI – Dreams and dreaming

An examination of the history of the meaning and use of dreams in various cultures, modern approaches to the study of dream material, relation of dreams to age, gender, social and cultural groups using content analysis, correlation of dream content to mental and physical health, lucid dreaming. Prerequisite: One of *Psychology 221, 222H, 235, 236H*. Two-hour lecture weekly; seminar fortnightly.

Psychology – Biology 375H/FA – Principles of the nervous system

An intensive coverage of the central nervous system, its anatomy and physiological interactions. The course emphasizes subcortical and cortical brain structures and their functional characteristics. Prerequisite: *Psychology 221* or *222H* or one of *Biology 207H, 211H, 213H, 384H*. Two-hour lecture weekly; two-hour lab weekly.

Psychology – Biology 376H/FA – Neuropsychology

An examination of the relationship between brain function and psychological processes, drawing heavily from contemporary research involving humans and animals and describing the neural bases for such psychological processes as learning, memory, language and emotion. Special attention is given to behavioural abnormalities resulting from brain pathology. Prerequisite: *Psychology 221* or *Psychology 222H* or *Psychology – Biology 375H*. Two-hour lecture weekly; seminar fortnightly.

Psychology 379H/WI – Aging and cognition

A detailed examination of the changes in cognitive functioning that accompany the aging process. While consideration will be given to the alterations in nervous and sensory systems that help explain decrements, attention will also be focused on the experiential factors that lead to maintenance and improvements in many cognitive skills. Prerequisite: *Psychology 215* and one of *Psychology 225H, 306, 351*. Excludes *Psychology 380, 480*. Two-hour lecture weekly; seminar fortnightly.

Psychology 381H/FA/WI – Development of adolescents and young adults

This course is designed to examine developmental theory and research in the area of development of adolescents and young adults. Topics include different theoretical views of physical, cognitive, moral and identity development and developmental issues in the contexts of family, peers, school and work. Prerequisite: *Psychology 280* or *281H*. Two-hour lecture weekly; seminar fortnightly.

Psychology 383H/FA/WI – Development of individuals with exceptionalities

This course is designed to examine developmental theory and research in the area of exceptional development. Topics include developmental difficulties for individuals with intellectual, vision or hearing impairments, individuals with physical disabilities and individuals with autism. Practical and theoretical implications of research will be emphasized. Prerequisite: *Psychology 280* or *281H*. Excludes *Psychology 382*. Two-hour lecture weekly; seminar fortnightly.

Psychology 384H/FA/WI – Family development

This course will expose the student to current life-span developmental theory and research methodology in the area of family relationships. Topics to be covered include family-systems theory, attachment theory, Erikson's psychosocial theory, developmental interaction in the child-rearing years, family life transitions, challenging issues of contemporary parenting. Prerequisite: *Psychology 280* or *281H*; or C- (60%) or higher in *Psychology 101* and four Nursing credits. Two-hour lecture weekly; seminar fortnightly.

Psychology 387H – Research practicum I

A course designed to allow students in the third or fourth year of their psychology Honours degree program to pursue research activities under the direction of a department faculty member, normally within that person's on-going research program. Prerequisite: 75% or higher in *Psychology 215*, successful completion of three Psychology credits, Honours standing, specific course prerequisites depending on the faculty supervisor, and permission of the department. Consult the student handbook for a list of participating faculty members. Students intending to take a research practicum course must consult with the chair of the department before registering in the course.

Psychology 388H – Research practicum II

A second practicum can be taken with a different faculty member. Same prerequisites as for *Psychology 387H* apply.

Psychology 390, 391H, 392H – Reading course

A course designed to allow advanced students in Psychology to pursue independent study under the direction of departmental faculty. Prerequisite: *Psychology 215* and permission of the department. Not counted as part of the minimum requirements for the Honours degree. Students intending to take a reading course must consult with the chair of the department before registering in the course.

Psychology 401/402D – Honours thesis

Students design and execute a major piece of psychological research under the supervision of departmental faculty and participate in periodic workshops and departmental colloquia. *Psychology 402* is a double credit for Psychology majors; *Psychology 401* is a single credit involving submission of the same thesis to the other department/program of a joint-major. Prerequisite: (a) *Psychology 315* and at least 0.5 credits from each of A2, B2, A3 and B3, (b) an average of 75% or better in all psychology courses completed and (c) permission of the department. The thesis should be taken in the final year of the student's degree. Two-hour weekly meetings.

Psychology 414H/FA – Advanced topics in perception, learning, cognition and language

For 2004-2005, the topic is: Consciousness. A study of recent theory and research on the connections of attention, conscious and unconscious processes, and the role that each plays for human cognition and emotion. Prerequisite: Honours standing; one of *Psychology 202H, 225H,*

303H, 307H, 352H, 366H, 376H; *Psychology 315 or 333* (*Psychology 315 or 333* are co-requisites, if the student has successfully completed 15 credits); at least one additional 300-level Psychology credit. Three-hour seminar weekly.

Psychology 416H/WI – Advanced topics in perception, learning, cognition and language

For 2004-2005, the topic is: Autobiographical memory. Topics include aspects of autobiographical memory such as its accuracy, emotions, patterns of development and disruption across the lifespan as well as its functions as communication, cultural context and source of anchoring events that have self-directive value. Prerequisite: Honours standing; one of *Psychology 225H, 351, 365, 430; Psychology 315 or 333* (*Psychology 315 or 333* are co-requisites, if the student has successfully completed 15 credits); at least one additional 300-level Psychology credit. Three-hour seminar weekly.

Psychology 423H/FA – Advanced topics in physiological psychology and neuroscience

For 2004-2005, the topic is: Sleep states and memory processes. A study of the data from animal and human studies and an evaluation of the theories arising from such studies. Consideration of research strategies to study the sleep – memory relationship. Examination of the role of dreams in memory processing. Prerequisite: Honours standing; *Psychology 372H; Psychology 315 or 333* (*Psychology 315 or 333* are co-requisites, if the student has successfully completed 15 credits); at least one additional 300-level Psychology credit. Three-hour seminar weekly.

Psychology 431H/FA – Advanced topics in personality, social, abnormal and development

For 2004-2005, the topic is: Psychology of sexual violence. An examination of models of sexual violence and contemporary research findings with particular emphasis on beliefs about sexual assault and their relationship to judgements about and commission of sexual assault. Prerequisite: Honours standing; *Psychology 300H or Psychology 304H; Psychology 315 or 333* (*Psychology 315 or 333* are co-requisites, if the student has successfully completed 15 credits); at least one additional 300-level Psychology credit. Three-hour seminar weekly.

Psychology 434H/FA – Advanced topics in personality, social, abnormal and development

For 2004-2005, the topics is: Successful aging. An in-depth study of theory and research about factors that contribute to successful aging. Topics to be covered include the myths of aging, models of successful aging, successful aging indicators, psychosocial predictors, lifestyle factors, personality, existential meaning and purpose, optimism, spirituality, and the promotion of successful aging through life review. Prerequisite: Honours standing; *Psychology 363H; Psychology 315 or 333* (*Psychology 315 or 333* are co-requisites, if the student has successfully completed 15 credits); at least one additional 300-level Psychology credit. Three-hour seminar weekly.

Psychology 445H/FA – Qualitative research and analysis

An introduction to theory, contemporary debates and practical strategies of qualitative research. Students will gain practical skills regarding the use of different analytical and presentational techniques. Qualitative research strategies discussed will include in-depth interviews, focus groups, interpretive ethnography, narrative analysis, discourse analysis, action research and participatory research. Prerequisite: *Psychology 315 or 333* and four additional Psychology credits. Two-hour lecture weekly, seminar weekly.

Psychology 471H/WI – History of psychology

This course is designed to give students an overview of the historical and philosophical foundations of modern psychology, defined broadly as humanity's attempts to understand itself. The course explores the development of the discipline from prehistory through the 21st century within a broader intellectual and cultural context. Prerequisite: Any four Psychology credits. Excludes *Psychology 470*. Two-hour lecture weekly, seminar fortnightly.

Psychology – Biology 484H – Neuroendocrinology (see Biology)

Psychology 490, 491H, 492H – Reading course

A course designed to allow students in the fourth year of their Psychology program to pursue independent study under the direction of departmental faculty. Prerequisite: *Psychology 215*, plus successful completion of at least 10 credits, plus Honours standing, plus permission of the department. Students intending to take a reading course must consult with the chair of the department before registering in the course.

Science

Telephone: (705) 748-1011 ext. 1225
Fax: (705) 748-1652

E-mail: gcollins@trentu.ca
Web: www.trentu.ca/admin/sciencedean

Courses listed in this section, while counting as science credits, may be of particular interest to non-science students. Cross-listed courses are administered by the originating departments.

Environmental & Resource Science 270 – Biology – Environmental science for Teacher Education (see Environmental & Resource Science/Studies and Biology)

Environmental & Resource Science 350 – Environment and communication
(see Environmental & Resource Science/Studies)

Mathematics 280 – Mathematics for Teacher Education (see Mathematics)

Mathematics – Science 380 – History of mathematics (see Mathematics)

Physics 150 – Introductory astronomy (see Physics)

Physics – Science 209 – Physical science for Teacher Education (see Physics)

Physics 251H – Life in the universe (see Physics)

Physics 252H – The universe and life (see Physics)

Sociology

Telephone: (705) 748-1011 ext. 1537
Fax: (705) 748-1213

E-mail: sociology@trentu.ca
Web: www.trentu.ca/sociology

Chair of the Department

To be named

Professors

P. Bandyopadhyay, B.A. (Calcutta), M.A. (Oxford, Manchester), Ph.D. (Manchester) (*on leave Winter session*); **S. Clark**, B.A. (Liverpool), M.A. (McMaster), Ph.D. (British Columbia); **A. Heitlinger**, B.A. (Kent), Ph.D. (Leicester); **C. V. Huxley**, B.A. (York, England), M.A. (Simon Fraser), Ph.D. (Toronto); **B.L. Marshall**, M.A. (Guelph), Ph.D. (Alberta) (*on leave Fall session*)

Associate Professors

S. Arat-Koc, B.A. (Bogazici), M.A. (Waterloo), Ph.D. (Toronto); **D. M. Clarke**, B.A. (Trent), M.A. (McMaster), Ph.D. (Carleton); **J. Conley**, B.A. (Alberta), M.A. (Toronto), Ph.D. (Carleton); **S. Katz**, B.A. (York), M.A. (McGill), Ph.D. (York); **A. Law**, B.A.S. (Sydney), M.A. (Alberta), Ph.D. (Alberta); **F. Nutch**, B.A. (Adelphi), M.A. (Hawaii), Ph.D. (York) (*on leave Winter session*); **D. Parnis**, B.A. (Ryerson), M.A. (Toronto), Ph.D. (Carleton) (*on leave 2004-2005*); **G. M. Thibault**, B.Ed., M.A., Ph.D. (Dalhousie)

Assistant Professor

G. Balfour, B.Sc., M.A. (Ottawa), Ph.D. (Manitoba).

Professors Emeriti

R. T. Bowles, B.Sc. (Brigham Young), Ph.D. (Oregon); **J. Hillman**, M.A. (Oxford), Ph.D. (SUNY, Buffalo); **R. A. Lockhart**, M.A. (Simon Fraser), Ph.D. (Essex)

Sociology at Trent seeks to provide students with a tool kit of concepts, theories, research skills and factual information to enable them to think critically about the changing social conditions they are living through, and about the efforts of people to direct that change. Building on a common core of required courses in theory and methods, the Sociology program at Trent offers two main concentrations: 1) social structures and social policies, in areas such as social inequality, families, health and criminal justice and 2) social interaction and culture, in areas such as religion, media studies, ethnic and sexual identities.

Revisions to requirements for the Honours degree in Sociology

Beginning in the 2001–2002 academic year the Honours degree in Sociology consists of 20 (rather than 19) credits. This change took effect with students selecting their majors after the start of the 2001–2002 academic year, and does not apply to any students who previously declared a major in Sociology.

Notes

- C- (60%) or higher in *Sociology 100* is a prerequisite for all upper level Sociology courses, with the possible exception of cross-listed courses, for which students should check the prerequisites.
- Courses at the 300-level are open to students who have completed 5 credits, including at least 1 credit in Sociology at the 200-level.
- 400-level courses are open to students who have completed 10 university credits, of which 2 must be at the 300-level. Students majoring in Sociology must complete *Sociology 210*, *215* and *316H* before proceeding to 400-level courses. Students not majoring in Sociology must obtain permission of the instructor.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in Sociology, if they have met the requirements for the joint-major General degree (see below).

BACHELOR OF ARTS PROGRAM IN SOCIOLOGY

- see p. 22 for requirements which apply to all undergraduate degree programs.
- The program has two tiers: foundation courses in basic areas of Sociology at the 100- and 200-level, and courses in specialized areas of Sociology at the 300- and 400-level. The foundation courses aim to provide a grounding in the core theoretical and methodological aspects of the discipline. The specialized courses permit students to study in some detail particular substantive areas in Sociology.
- *Economics – Administration 220H*, *Geography – Environmental & Resource Science – Biology 208H*, *Mathematics – Statistics 150*, *Psychology 215* or *Psychology 315* are equivalent to *Sociology 316H* for program requirements, but do not count as a Sociology credit.
- Students planning to enter graduate school are strongly advised to take at least one of *Sociology 403H* or *404H*.

The single-major Honours program. At least 9.5 credits in Sociology, including:

- *Sociology 100*, *210*, *215* and *316H*
- 3 credits at the 300-level or higher
- 2 credits at the 400-level
- 1 additional credit

The joint-major Honours program. At least 7.5 credits in Sociology, including:

- *Sociology 100*, *210*, *215* and *316H*
- 2 credits at the 300-level or higher
- 1 credit at the 400-level
- 1 additional credit

The single-major General program. At least 6 credits in Sociology, including:

- *Sociology 100*, *210* and *215*
- 2 credits at the 300-level
- 1 additional credit

The joint-major General program. At least 5 credits in Sociology, including:

- *Sociology 100*, *210* and *215*
- 1 credit at the 300-level
- 1 additional credit

Please consult the academic timetable to determine which of the courses listed will be offered in 2004–2005.

Sociology 100 – Introduction to sociology

An introduction to sociology's major thinkers, theories, methods and fields of research and how they are used to understand social life; from everyday interactions to the structures of global societies. Course materials focus on contemporary social issues by drawing on Canadian and comparative contexts. *G. Balfour and staff*

Sociology 210 – Classical sociological theory

An examination of the structure and scope of sociological theorizing. Conceptions of theory, method and object of investigation will be explored with regard mainly to Marx, Weber and Durkheim. Prerequisite: At least three university credits and C- (60%) or higher in *Sociology 100*. *Staff*

Sociology 215 – Research methods

A project based introduction to the major research methods in sociological research. Excludes *Sociology 221H*. Prerequisite: c- (60%) or higher in *Sociology 100*. *F. Nutch and A. Law*

Sociology 220 – Social inequality: Class, gender, ethnicity

The sociological study of social inequality, concentrating on class, gender and ethnicity as relations of domination will be explored through a variety of theories and methods. The course will focus on the structural analysis of these social relationships, their links with each other and their effects on societies and individuals. Prerequisite: C- (60%) or higher in *Sociology 100*. *P. Bandyopadhyay and J. Conley*

Sociology – History 223 – The other Europe (see History)

Sociology 230 – Self and social interaction

This course examines the theoretical and methodological foundations of interactionist, micro-sociological, interpretive and sociological-psychological research. Applied areas critically investigate language and discourse, social time and public spaces, and the shaping of identity and subjective life in everyday contexts. Prerequisite: C- (60%) or higher in *Sociology 100*. *S. Katz and staff*

Sociology – Canadian Studies – Politics 300 – Reading the social: Space, difference and power in Canada (see Canadian Studies)

Sociology – Canadian Studies – Politics 305H – Society and politics in Quebec (see Canadian Studies)

Sociology 316H – Statistics

An introduction to basic statistics and their application in sociological research. Prerequisite: *Sociology 215* or *221H*. Excludes *Economics – Administration 220H*, *Geography – Environmental & Resource Science – Biology 208H*, *Mathematics – Statistics 150*, *Psychology 215*, *315* and *Sociology 222H*. *F. Nutch*

Sociology – Politics 323 – Nationalism and political order in global perspective (see Political Studies)

Sociology – Administration 333H – Social organizations

The nature and role of bureaucracies and other organizations in the contemporary world. The classical, managerial and recent sociological perspectives. Case studies will focus on formal organizations in the public and private sectors. Prerequisite: one credit in Sociology at the 200-level or *Administration 250*. *C. Huxley*

Sociology 334H – Sociology of work

The nature and meaning of paid work in North America. The effects of technological changes, the shift to a service economy and the changing gender composition of the labour force on managerial and employee strategies to control the workplace. Prerequisite: one credit in Sociology at the 200-level or *Administration 250*. *C. Huxley*

Sociology – Canadian Studies 341H – Sociology of education

The development of formal education as a social institution, its social and political organization, schooling as a social process, the occupation of teaching, the relationship between education and social inequalities and current changes and challenges. The focus is on education in Canada with comparisons to other societies when appropriate. Prerequisite: *Sociology 210* or *220* or *Canadian Studies 200* or *300*. *J. Conley*

Sociology – Women's Studies 343H – Sociology of gender

This course will focus on gender as both an analytical construct in sociological theory and research, and as a key aspect of social organization. Issues to be examined include the social construction of masculinity and femininity, theories of gender acquisition and the social reproduction of gender inequalities. Prerequisite: one credit at the 200-level in Sociology or Women's Studies. Excludes *Sociology – Women's Studies 342*. *S. Arat-Koc*

Sociology – Women's Studies 344H – Social construction of sexuality

This course will explore sexuality as a complex issue in sociological analysis. We will examine theoretical approaches to the body, gender and sexuality, the construction of "normal" and "deviant" sexualities, and various forms of sexual regulation and resistance. Prerequisite: one credit at the 200-level in Sociology or Women's Studies. *B. L. Marshall*

Sociology 345 – Culture and society

This critical examination of culture in contemporary society focuses on processes of cultural production and consumption as they are mediated by relations of capital and technology. Topics include: the ideology of consumerism, advertising, lifestyle and taste, the commodification of nature, cultural nationalism and cultural policy, biotechnology, and countercultures. Prerequisite: one credit in Sociology at the 200-level. *Staff*

Sociology 347 – Religion and society

This course investigates sociological reflections upon the functions of religions in various societies, the social organization of rituals and religious practices and the phenomenology of religious experiences. Studies will be drawn from a few of the major world religions. Prerequisite: one credit in Sociology at the 200-level. *Staff*

Sociology 361 – Crime, deviance and social control

This course is intended to lay the theoretical and empirical foundations of the sociology of deviance and social control. Using classical and contemporary texts, students will explore the micro and macro processes of designating deviance and the various expressions of social control, such as stigma, medicalization and criminalization. Excludes *Sociology 364H, 365H*. Prerequisite: *Sociology 210*. *G. Balfour*

Sociology 363 – Sociology of health and illness

An analysis of health care systems. Topics include definitions of health and illness, medical technology and health professions, health care politics and policy and class and gender relations in health care delivery systems. Prerequisite: one credit in Sociology at the 200-level. *A. Heitlinger*

Sociology 366 – Analysis of social policy

An examination of the expanding role of state and government institutions in shaping socio-economic conditions and social welfare. Policy formulation and implementation will be assessed with emphasis on such sectors as education, health, housing and welfare. Prerequisite: one credit in Sociology at the 200-level. (Not offered this year)

Sociology 370 – Families and households

This course examines the contributions of sociology to the analysis of different family forms and household types. Topics may include mate selection and couple formation, marriage and divorce, sexuality, the division of household labour, the social contexts of childbirth, and family violence. Prerequisite: one credit in Sociology at the 200-level. Excludes *Sociology 241*. *D. Clarke*

Sociology – Politics 382H – Protest, contention and social movements

An examination of sociological theory and research on contemporary social movements covering topics such as mobilization and organization; collective identities, forms of contentious action, relationships between contenders and powerholders, and the outcomes of social movements. Prerequisite: *Sociology 210* or *220* or at least one credit in Political Studies at the 200-level.

J. Conley

Sociology – Women's Studies 386H – Gender, race and class (see Women's Studies)**Sociology – Canadian Studies – Women's Studies 387H – Immigrant women in Canada (see Women's Studies)****Sociology – Canadian Studies 388H – Selected topics in Canadian social structure: Canada compared**

An examination of aspects of Canadian society in comparison with the United States and other societies. Possible topics include: class formation, regionalism, ethnicity, welfare state. Prerequisite: *Sociology 220* or *Canadian Studies 200* or *300*.

Sociology – International Development 396H – Law, rights, and development

(see International Development Studies)

Sociology 402D – Honours thesis

A specific scholarly project on a well-defined topic, for which double credit will be given, to be worked out in consultation with the student's Honours supervisor. Prerequisite: 75% (B) average in Sociology courses. Regular student/supervisor meetings will be scheduled.

Sociology 403H – Key concepts in contemporary sociological analysis

This year, the course will focus on "society" and "the social" as they have been conceptualized in a range of theoretical traditions. Topics include the individual-society relationship, social change, theories of the public sphere and citizenship and postmodern decentring of the social.

Prerequisite: *Sociology 210* or permission of instructor. (If offered in Oshawa, course content may differ. Contact the Sociology department for information.)

Sociology 404H – Contemporary sociological theory

This year the course will study problems regarding culture and human agency, and the relations between cultural forms, rationality and social structures. It will consider the work of Levi-Strauss, Chomsky, and Margaret Archer, among others. Prerequisite: *Sociology 210* or the permission of instructor. (If offered in Oshawa, course content may differ. Contact the Sociology department for information.) *P. Bandyopadhyay*

Sociology 441H – The sociology of culture and knowledge

This year the course explores sociological theories of "the risk society" and risk-management governance in cases of technological accidents, social panics, health epidemics, virtual pathogens and genetic diseases. Critical inquiry highlights the sociology of life itself as a field of investigation. Prerequisite: *Sociology 215* or both *Sociology 221H* and *222H*, plus one of *Sociology 210*, *230* or *363*. (If offered in Oshawa, course content may differ. Contact the Sociology department for information.) *S. Katz*

Sociology 442H – Aging and the lifecourse

The course explores the theories, research methods and professional development of social gerontology and critical perspectives on aging and old age. Topics include population aging, anti-aging consumerism, caregiving and social support, retirement, intergenerational relations and end-of-life ethics. Prerequisite: *Sociology 215* or both *Sociology 221H* and *222H*, plus one of *Sociology 230* or *Sociology 363*. (If offered in Oshawa, course content may differ. Contact the Sociology department for information.) *S. Katz*

Sociology – Canadian Studies 445 – The media and communications in Canada

Overview of the history and political economy of the media industries, including publishing, film, radio, television and new communication technologies. Special topics include media ownership and control, the process of television news production, and the dynamics of media reception.

Prerequisite: one credit in Sociology at the 300-level or *Sociology – Canadian Studies – Politics 300* or permission of instructor. Two-hour seminar weekly. *D. Clarke*

Sociology 451H – Sociology of sport and leisure

This course critically examines cultural and economic relations in sport and leisure. Topics include outdoor recreation, spectator sport, informal play and tourism. Topics will be explored from both contemporary and historical perspectives with emphasis on the dynamics of power and identity.

Prerequisite: one credit in Sociology at the 300-level or permission of instructor. *A. Law*

Sociology – Canadian Studies – Women's Studies 455 – The dynamics of difference: Gender, disability, and Canadian cultural representations (see Canadian Studies)**Sociology – Women's Studies 461H – Advanced studies in the sociology of gender**

This year: "Gender, Technology and Consumption." This course explores current and intersecting debates in science and technology studies, the sociology of consumption and feminist studies. In investigating these intersections, we will draw on both theoretical work and case studies of the development, marketing and end-use of particular technologies – including biomedical technologies, domestic appliances, and information and communication technologies.

Prerequisite: Completion of at least one of *Sociology – Women's Studies 343H* or *Sociology – Women's Studies 344H* or *Sociology 345*. (If offered in Oshawa, course content may differ. Contact the Sociology department for information.) *B. L. Marshall*

Sociology 462H – Advanced studies in social policy

In-depth study and analysis of aspects of contemporary social policy in Canada, with particular attention to their relation to class, gender and ethnic/racial inequalities. Policy areas to be investigated may include: family, pay and employment equity, social welfare, health, criminal justice and housing. Prerequisite: At least two of *Sociology 210, 220, 230, 215* or both *Sociology 221H* and *222H* or equivalent. (If offered in Oshawa, course content may differ. Contact the Sociology department for information.) (Not offered this year)

Sociology – International Development 470H – Religion and social movements

An examination of the religious movements within Catholic tradition generated by social upheaval in contemporary Latin America, with particular attention given to new forms of religious organization and theology, together with the revitalization of popular religion.

Prerequisite: one credit in Sociology at the 300-level or 200-level International Development course.

Sociology 480 – Comparative social analysis

Travel as a method of comparative analysis. Topics include ethnocentrism, orientalism, the "politics" of location in the production and reception of knowledge, the use of travellers' reports in historical and comparative research, year abroad programs and critical reflections on personal experiences of travel. Prerequisite: *Sociology 210* or permission of instructor. A. Heitlinger

Sociology 495 – Special topic: Applied sociological research

This course delivers practical skills and resumé citations in conducting sociological research on behalf of social agencies with an emphasis on program evaluation and social policy impact analysis. Skill areas include surveys, interviews, focus groups and document analysis. The course will be based on "live" research projects. Prerequisite: *Sociology 215* and *Sociology 316H* or equivalent. (If offered in Oshawa, course content may differ. Contact the Sociology department for information.) A. Law

Sociology 496H – Special topics in sociological investigation

This year: "Sociology of the automobile." Through the medium of the automobile and its role in the daily lives, culture, economy and society of North Americans, this course explores sociological issues such as power, status, class, sexuality and gender, risk, trust, deviance, identity, and the life course. Specific topics covered will depend on the interests of students and the availability of resources. J. Conley

Sociology 497H – Special topics in sociological investigation

This year: Sociology of law. This course examines the law and society relationship using classical and contemporary socio-legal theory. It will be organized into three areas: the form of law, the practice of law and law reform. Topics could include Aboriginal peoples and the law, immigration law, anti-terrorism legislation, poverty and labour law, family law and youth justice. Prerequisite: *Sociology 210* and *364H* or *365H*. G. Balfour

Reading Courses

Both full- and half-year reading courses are available as *Sociology 390, 391H, 392H, 393H, 490, 491H, 492H, 493H*. Registration in reading courses is contingent on instructor's permission and departmental approval in advance of course registration.

Statistics

See Mathematics

Women's Studies

Telephone: (705) 748-1011 ext. 1436
Fax: (705) 748-1130

E-mail: womenst@trentu.ca
Web: www.trentu.ca/womenstudies

Associate Professor and Chair of the Program

J. Harrison, B.A. (Saskatchewan), M.A. (Calgary), D.Phil (Oxford.)

Professor

J. Sangster, B.A. (Trent), M.A., Ph.D. (McMaster)

Associate Professors

S. Arat-Koc, B.A.(Bogazici), M.A. (Waterloo), Ph.D. (Toronto); **M. Hobbs**, B.A. (Trent), M.A., Ph.D. (Toronto); **W. Lem**, M.A., Ph.D. (Toronto); **E. Stavro**, M.A., Ph.D. (Toronto)

Assistant Professor

C. O'Manique, B.A. (Carleton), M.A., Ph.D. (York)

Associated Faculty

Canadian Studies: **M. Lacombe**. *English Literature:* **S. J. Bailey**, **J. A. Buckman** (on leave), **C. Eddy**, **R. J. Dellamora**. *Geography:* **S. Wurtele**. *History:* **F. Harris-Stoertz**. *Native Studies:* **E. Manitowabi**, **S. I. Williams**. *Sociology:* **B. L. Marshall**, **D. Parnis**, **A. Heitlinger**.

Women's Studies originated in the 1960s as a result of political critiques of the marginalization of important social groups and perspectives within our educational system. Women's Studies explores gender relations and women's experiences across cultures, throughout history and in our contemporary society. As an interdisciplinary program, Women's Studies draws on the insights and methodologies from a wide variety of disciplines such as history, literature, psychology, sociology, politics, international development studies, geography, philosophy, Native studies, cultural studies, Canadian studies and anthropology. Our approach combines theory with empirical and experimental research, as we explore questions such as: how have gender relations been organized in different cultural and historical contexts?: how have women resisted discrimination and organized for change?: how do gender relations affect economic development?: how is women's writing shaped by their life experiences?: how do race, ethnicity, sexual orientation and disability shape women's experiences and opportunities? The program offers a high degree of flexibility in course selection, including options for a year abroad and community research placements.

Revision to requirements for the Honours degree in Women's Studies

Beginning in the 2001–2002 academic year the Honours degree in Women's Studies consists of 20 (rather than 19) credits. This change took effect with students selecting their majors after the start of the 2001–2002 academic year, and does not apply to any students who previously declared a major in Women's Studies.

Notes

- Some Women's Studies courses cross-listed with other departments and programs have prerequisites not listed here.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Office of the Registrar for a minor in Women's Studies, if they have met the requirements for the joint-major General degree (see below).

BACHELOR OF ARTS PROGRAM IN WOMEN'S STUDIES

- see p. 22 for requirements which apply to all undergraduate degree programs.
- No more than one credit from reading courses may count towards the number of Women's Studies credits required for the single- and joint-major General degree; and no more than two towards the number required for the single- and joint-major Honours degrees.
- Students who entered the program before 1993–94 should substitute *Women's Studies 200* for *Women's Studies 100* in the requirements for a major.

The single-major Honours program. At least 9 credits in Women's Studies, including:

- *Women's Studies 100, 201, 300* and 400
- 2 additional credits at the 400-level
- 3 additional credits

The joint-major Honours program. At least 7 credits in Women's Studies, including:

- *Women's Studies 100, 201, 300* and 400
- 1 additional credit beyond the 200-level
- 2 additional credits

The joint-major General program At least 5 credits in Women's Studies, including:

- *Women's Studies 100, 201* and 300
- 2 additional credits

The single-major General program At least 6 credits in Women's Studies, including:

- *Women's Studies 100, 201 and 300*
- 1 additional credit beyond the 200-level
- 2 additional credits

Please consult the academic timetable to determine which of the courses listed will be offered in 2004–2005.

Women's Studies 100 – Introduction to Women's Studies

An interdisciplinary introduction to Women's Studies. The course explores the intersections of gender, race, class and sexuality in the construction of gender relations, historical and contemporary feminist movements, as well as selected feminist issues such as the body, violence, poverty and cultural production. Lecture, seminar weekly. *M. Hobbs and staff*

Women's Studies 201 – Feminist research

This course introduces the theory and the practice of feminist research. Its objective is to provide students with the critical skills to recognize gender (and other) bias in the research they will encounter both within and outside of the university, and to provide practical tools to conduct research from a feminist perspective. Prerequisite: *Women's Studies 100* or permission of instructor. *C. O'Manique*

Women's Studies – Cultural Studies 220 – Women and popular culture

This course engages students in critical readings of women and popular cultures, film, television, print and Internet media, fictions, fashion, music and dance. The course examines the process through which women are constructed within dominant popular cultures, focusing on women as active agents in production and consumption of popular culture. *Staff*

Women's Studies – International Development 225 – Women, gender and development

An analysis of the political, economic and cultural issues that confront women in their struggles for and against development in different localities across the globe. Theoretical and conceptual frameworks are explored and used to examine case studies of women's experiences of work and social change in developing contexts. Prerequisite: *Women's Studies 100* or *International Development 100* or permission of instructor. *W. Lem*

Women's Studies – Philosophy 231 – Feminist philosophy (see Philosophy)

Women's Studies – Classical Civilization 231H – Women in the Greek World, c. 700–300 B.C.
(See Ancient History & Classics)

Women's Studies – Classical Civilization 232H – Women in the Roman World, 100 B.C.–A. D. 300 (See Ancient History & Classics)

Women's Studies – Canadian Studies – Politics 237H/ FA – Women and the law

This course introduces students to feminist legal theory and to selected topics on Canadian law that have a specific bearing on women. Topics may include: women and constitutional equality, employment law, family law, rape, domestic violence, pornography, reproductive rights and poverty law. Lecture, seminar weekly. *Staff*

Women's Studies – Canadian Studies – Politics 238H/WI – Women and the criminal justice system

This course introduces students to feminist criminological theory (and their policy implications) and to selected topics on prisons and the Canadian criminal justice system as they pertain to women. Topics may include: women's crime rates, Battered Wife Syndrome, vagrancy, prostitution, drug use, "girl gangs," women's prisons, racism women and prisons. Lecture, seminar weekly. *Staff*

Women's Studies – Canadian Studies – English 266H – Canadian women's writing, 1945–1980 (see Canadian Studies)

Women's Studies – Canadian Studies – English 267H – Canadian women's writing, 1980–present (see Canadian Studies)

Women's Studies – Canadian Studies 274H/FA – Women in Canada: Region and place (see Canadian Studies)

Women's Studies – Canadian Studies 275H/WI – Women in Canada: Women and the arts
(see Canadian Studies)

Women's Studies – History 276 – Women in Britain and Europe (see History)**Women's Studies 300 – Feminist critical thought**

An examination of the development of feminist theory through classic texts and the debates those texts have inspired. The course focuses on key debates in Marxism and socialist feminism, radical feminism, postmodernism, identity politics and transnational feminism. Lecture, seminar weekly. Prerequisite: *Women's Studies 100* and *201* or permission of instructor. S. Arat-Koc

Women's Studies – Psychology 304H – The psychology of gender (see Psychology)**Women's Studies – English 310 – Gender and literature** (see English)**Women's Studies – German 314H – Studies in German Romanticism in the European context: Women writers and German Romanticism** (see German Studies)**Women's Studies – Canadian Studies – Environmental & Resource Studies 315 – Women, health and environments**

This course examines feminist engagements, in theory and practice, with environmental movements and environmental health issues, primarily in Canada and the U.S. Topics include ecofeminism and environmental justice movements, environmental links to breast cancer and to reproductive health, home hazards, women, and green consumerism, and gendered food politics. Prerequisite: open to upper year students with at least one course in Women's Studies, Canadian Studies, or Environmental Resource Studies, or permission of instructor. Excludes *Women's Studies – Canadian Studies 397*. M. Hobbs

Women's Studies – Canadian Studies – History 316 – Canadian women's history (see History)**Women's Studies – Geography – Canadian Studies 322H – Gender, society and space** (see Geography)**Women's Studies – Politics 336H – The body politic/The body in politics** (see Political Studies)
(Not offered this year.)**Women's Studies – Sociology 343H – Sociology of gender** (see Sociology)**Women's Studies – Sociology 344H – Social construction of sexuality** (see Sociology)**Women's Studies – Native Studies 350 – First Nations women** (see Native Studies)**Women's Studies – German 351H – Women and socialism: The East German context** (see German Studies) (Not offered this year.)**Women's Studies – Canadian Studies – Politics 367 – Women, law and politics** (see Political Studies)**Women's Studies – Cultural Studies 381 – World Cinema** (see Cultural Studies)**Women's Studies 382, 383H – Community research placement**

Students are placed in research projects with community organizations in the Peterborough area. Each placement is supervised jointly by a faculty member and a representative of a community organization. Placements are arranged through the Trent Centre for Community-Based Education in consultation with relevant faculty, based on research needs identified by community organizations. For details, see Community-Based Education program (p. 206).

Women's Studies – Sociology 386H/FA – Gender, race and class

An examination of theoretical perspectives on gender, race, ethnicity and class. Using international historical and contemporary case studies, the course will analyze how gender identity and gender relations are constructed through the intersections of race, ethnicity and class. Prerequisite: *Women's Studies 100* or *Sociology 100* or permission of instructor. Excludes *Women's Studies – Canadian Studies – Sociology 286* and *287H*. S. Arat-Koc.

Women's Studies – Canadian Studies – Sociology 387H/WI – Immigrant women in Canada

This course will investigate how immigration and settlement policies have been/are based on, and in their turn have contributed/are contributing to gender, racial and ethnic inequalities in Canada. Prerequisite: *Women's Studies 100* or *Sociology 100* or permission of instructor. Excludes *Women's Studies – Canadian Studies – Sociology 286* and *288H*. S. Arat-Koc

Women's Studies – Politics 388 – The politics of gender and globalization

This course focuses on how globalization is transforming gender dynamics that underpin relationships between and within states, markets, civil society, and households. It introduces students to feminist perspectives on the global political economy, focusing on specific issues such as: international trade agreements, labour, security, migration, health, environment, and human rights. Lecture and tutorials weekly. Prerequisite: either one 200-level course in Politics or Women's Studies or permission of instructor. *Politics 220 or Women's Studies 201 recommended.*
C. O'Manique

Women's Studies 390, 391H, 392H, 393H – Reading course

Designed to pursue special research interests in Women's Studies largely through independent study. Details to be arranged in consultation with Women's Studies chair. A Course Registration Form should be obtained, completed and submitted along with a proposal to the program for approval.

Women's Studies – History 3955H – History of sexuality (see History)

Women's Studies – Canadian Studies – Politics 400 – Advanced studies in feminism and social justice: Women, the welfare state and globalization in Canada

This course explores key issues and debates concerning the relation of women to modern welfare states, focusing on the historical construction of the Canadian welfare state and the contemporary impacts of economic restructuring and globalization on particular social policies and services affecting women's lives. Prerequisite: Open to third and fourth year students with at least one previous course in Women's Studies. Excludes *Women's Studies – Canadian Studies 4951*.
M. Hobbs

Women's Studies 401 – Honours thesis

Single credit. Consult program office for information and procedure. Students wishing to take a double credit thesis with one credit applied to Women's Studies and the second to their other major should see the chair of the Women's Studies program.

Women's Studies – Anthropology 422 – Gender: An anthropological perspective (see Anthropology)

Women's Studies – Philosophy – Politics 430 – Feminists theorize the political: Contemporary feminist philosophy (see Political Studies)

Women's Studies – Canadian Studies – Sociology 455 – Gender, disability, and Canadian cultural representation (see Canadian Studies)

Women's Studies – Sociology 461H – Advanced studies in the sociology of gender (see Sociology)

Women's Studies – Canadian Studies – English 466 – Representations of the other in contemporary Canadian writing (see Canadian Studies)

Women's Studies – English 475 – Contemporary African-American women writers (see English)

Women's Studies 482, 483H – Community research placement

Students are placed in research projects with community organizations in the Peterborough area. Each placement is supervised jointly by a faculty member and a representative of a community organization. Placements are arranged through the Trent Centre for Community-Based Education in consultation with relevant faculty, based on research needs identified by community organizations. For a fuller explanation, please consult the section of this Calendar on Community-Based Education program (p. 206).

Women's Studies 490, 491H, 492H, 493H – Reading course

Designed to pursue special research interests in women's studies largely through independent study. Details to be arranged in consultation with Women's Studies chair. A Course Registration Form should be obtained, completed and submitted along with a proposal to the program for approval.

Women's Studies 496H/WI – Special topic: Gender in science, gender and science

This course is an interdisciplinary introduction to the topic of women and gender in science. How is gender difference understood within scientific disciplines? Why are women under-represented in various science and technological fields? How are women, and feminist scholarship, changing science? Lecture, seminar weekly. C. O'Manique

SPECIAL PROGRAMS AND OPPORTUNITIES

In addition to the major, joint-major and minor degree programs described in the Undergraduate programs section of the calendar, students can take advantage of a range of special programs and opportunities. These include possibilities for international study experience or involvement in research projects in the local community. Emphases, consisting of groups of courses with a particular focus, are available as a complement to regular programs. Specializations provide additional focus within individual programs. Special Concentration programs are available to students whose academic interests cannot be met by majors in any of the existing programs.

Trent also provides opportunities to combine study at the community college and university levels. We have developed a number of degree completion programs through articulation agreements with several community colleges, and we also offer some programs in partnership with Fleming College in Peterborough and Lindsay.

Most of Trent's academic programs are offered at its Peterborough campus during the regular Fall/Winter session. However, as noted below, Trent also provides programs in the summer through Julian Blackburn College and offers degree programs at Trent University at Durham.

Community-Based Education Program

Trent Centre for Community-Based Education (TCCBE)

314 London Street (TC PL) Peterborough, Ont K9H 2Z4

Telephone: (705) 743-0523

Fax: (705) 743-3496

E-mail: tccbe@trentu.ca

Web: www.trentu.ca/tccbe

U-Links – University Links for Community-Based Research & Education in Haliburton County

Box 655, Minden, Ontario, K0M 2K0

Toll Free Telephone: 1-877-527-2411

Fax: (705) 286-3511

E-mail: ulinks@on.aibn.com

Web: www.haliburtoncooperative.on.ca

The Community-Based Education program is an innovative approach to experience-based learning. It offers students the opportunity to work with community organizations in Peterborough and Haliburton Counties, conducting research and helping to organize and carry out planning and development projects for course credit.

The program is designed to:

- assist community organizations with research and related projects that otherwise might not be completed
- provide students with "real-world" experience in their fields of study and enhance future employment prospects
- increase the level of co-operation and partnership between Trent University and the broader communities it serves.

Interested organizations submit proposals to the TCCBE or U-Links for review by a committee of representatives from the community and the University. Once approved, these projects are posted on the TCCBE website.

Courses

A community research project can be carried out as a full or half credit course, or as a thesis, commencing at the beginning of any Fall, Winter or Summer session. TCCBE and U-Links staff help students select projects that match their interests and program requirements. Students then meet with the community organization hosting the project, to make sure there is a compatible match. After this meeting students are responsible for finding an instructor to supervise and evaluate their work. Program staff assists with these steps, but participation in a course is contingent on the instructor's permission, and in some cases that of the department. These arrangements can take weeks to complete and should be in place before the start of the session in which the project will be carried out. Students should register for courses during pre-registration and contact the TCCBE or U-Links at this time in order to arrange their research placements. Participating students will be expected to attend regular meetings with the instructor and host organization, as well as occasional seminars offered by the TCCBE.

Assignments

Community research projects may also be undertaken as assignments within regular courses, with the permission of the instructor. Students or instructors should contact the TCCBE or U-Links early in the course or before it begins to identify projects of interest and relevance. Program staff will provide project details and facilitate arrangements with community host organizations.

Prerequisites

Ten full credits and a (minimum) 75% average. Students who do not meet these requirements but wish to participate should contact the program staff. Community host organizations may screen students for relevant skills or knowledge.

Resources and Contacts

The Community-Based Education program provides a common point of contact for students and faculty wishing to work with community organizations. Host organizations involved in the program provide supervision, facilities, services and materials. Participating full-time faculty members provide academic supervision, grade students' work and provide the same resources that are available for other university courses. The TCCBE and U-Links develop new projects and support those underway, facilitate communication among all participants, and provide research resources and contacts. They maintain resource centres that include computer/internet access, reference materials on community-based research, local agencies and initiatives, and reports from past projects. Students or faculty who wish to negotiate projects and partnerships with community organizations are strongly encouraged to contact the TCCBE.

Degree Completion Programs

Trent University offers degree completion options for students at Ontario community colleges who have successfully completed a number of 3-year (36 credit) diploma programs. Students graduating with a 75% average from a range of programs are eligible to receive 10 credits towards the 20-credit Honours degree.

These agreements are reviewed annually to accommodate changes in the programs at the two institutions. For complete details on degree completion agreements between Trent University and Ontario community colleges, see the Julian Blackburn College web page at www.trentu.ca/jbc.

For information on admission to these degree completion programs, please contact the Office of the Registrar at Trent University, (705) 748-1215 or e-mail registrar@trentu.ca.

FLEMING COLLEGE DEGREE COMPLETION PROGRAMS

Biology (Bachelor of Science, Honours)

Qualified students may enter the Biology program at Trent University on an advanced standing basis, subsequent to the successful completion of the three year (36 credit) diploma program in Fish & Wildlife with an average of 75%.

Notes

- As transfer credits recognize areas covered over the course of the diploma program rather than one-to-one course equivalents, numerical grades will not be recorded on the Trent transcript. Completion of these credits will be recognized with a "Pass" grade.
- In Environmental & Resource Science/Studies, Science courses which fulfil University requirements for the B.Sc. are designated Environmental & Resource Science; arts courses are designated Environmental & Resource Studies. Fourteen Science courses must be completed for an Honours degree in Science.

Business Administration (Bachelor of Business Administration)

Qualified students may enter the Business Administration program at Trent University on an advanced standing basis, subsequent to the successful completion of the following three-year (36 credit) diploma programs with an average of 75%: 1) Business Administration, 2) Business Administration – Accounting, 3) Business Administration – Human Resource Management and 4) Business Administration – Marketing.

Note

- As transfer credits recognize areas covered over the course of the diploma program rather than one-to-one course equivalents, numerical grades will not be recorded on the Trent transcript. Completion of these credits will be recognized with a "Pass" grade.

Computer Science (Bachelor of Science, Honours)

Qualified students may enter the Computer Science program at Trent University on an advanced basis, subsequent to successful completion of the following three-year (36 credit) diploma programs with an average of 75%: 1) Computer Science Technology and 2) Electronics Engineering Technology – Information Networks.

Notes

- As transfer credits recognize areas covered over the course of the diploma program rather than one-to-one course equivalents, numerical grades will not be recorded on the Trent transcript. Completion of these credits will be recognized with a "Pass" grade.
- 14 Science courses must be completed for an Honours degree in Science.

Environmental & Resource Science/Studies (Bachelor of Science, Honours)

Qualified students may enter the Environmental & Resource Science/Studies program at Trent University on an advanced standing basis, subsequent to the successful completion of the following three year (36 credit) diploma programs with an average of 75%: 1) Ecosystem Management, 2) Fish & Wildlife and 3) Terrain & Water.

Notes

- As transfer credits recognize areas covered over the course of the diploma program rather than one-to-one course equivalents, numerical grades will not be recorded on the Trent transcript. Completion of these credits will be recognized with a "Pass" grade.
- In Environmental & Resource Science/Studies, Science courses which fulfil University requirements for the B.Sc. are designated Environmental & Resource Science; arts courses are designated Environmental & Resource Studies. Fourteen Science courses must be completed for an Honours degree in Science.

DURHAM COLLEGE DEGREE COMPLETION PROGRAMS**Chemistry (Bachelor of Science, Honours)**

Qualified students may enter the Chemistry program at Trent University on an advanced standing basis, subsequent to the successful completion of the diploma program in Food & Drug Technology with an average of 75%.

Notes

- As transfer credits recognize areas covered over the course of the diploma program rather than one-to-one course equivalents, numerical grades will not be recorded on the Trent transcript. Completion of these credits will be recognized with a "Pass" grade.
- In Environmental & Resource Science/Studies, Science courses – which fulfil University requirements for the B.Sc. – are designated Environmental & Resource Science; arts courses are designated Environmental & Resource Studies. Fourteen Science courses must be completed for an Honours degree in Science.

Computer Science (Bachelor of Science, Honours)

Qualified students may enter the Computer Science program at Trent University on an advanced basis, subsequent to successful completion of the three year (36 credit) diploma program in Computer Science Technology with an average of 75%.

Notes

- As transfer credits recognize areas covered over the course of the diploma program rather than one-to-one course equivalents, numerical grades will not be recorded on the Trent transcript. Completion of these credits will be recognized with a "Pass" grade.
- 14 Science courses must be completed for an Honours degree in Science.

Environmental & Resource Science/Studies (Bachelor of Science, Honours)

Qualified students may enter the Environmental & Resource Science/Studies program at Trent University on an advanced standing basis, subsequent to the successful completion of the following diploma programs with an average of 75%: 1) Environmental Technology and 2) Food & Drug Technology.

Notes

- As transfer credits recognize areas covered over the course of the diploma program rather than one-to-one course equivalents, numerical grades will not be recorded on the Trent transcript. Completion of these credits will be recognized with a "Pass" grade.

- In Environmental & Resource Science/Studies, Science courses – which fulfil University requirements for the B.Sc. – are designated Environmental & Resource Science; arts courses are designated Environmental & Resource Studies. Fourteen Science courses must be completed for an Honours degree in Science.

SENECA COLLEGE DEGREE COMPLETION PROGRAMS

Computer Science (Bachelor of Science, Honours)

Qualified students may enter the Computer Science program at Trent University on an advanced basis, subsequent to successful completion of the three-year (36-credit) diploma program in Computer Programming & Analysis with an average of 75%. This diploma may include a specialist in one of the following areas: 1) Computer Programmer/Analyst, 2) AS/Mid-Range Specialist, 3) Data Communications Specialist, 4) Database Specialist, 5) Internet Specialist, and 6) Software Design Specialist.

Notes

- As transfer credits recognize areas covered over the course of the diploma program rather than one-to-one course equivalents, numerical grades will not be recorded on the Trent transcript. Completion of these credits will be recognized with a "Pass" grade.
- 14 Science courses must be completed for an Honours degree in Science.

LOYALIST COLLEGE DEGREE COMPLETION PROGRAMS

Computer Science (Bachelor of Science, Honours)

Qualified students may enter the Computer Science program at Trent University on an advanced basis, subsequent to successful completion of the three-year (36-credit) diploma program in Computer Science and Analysis with an average of 75%.

Notes

- As transfer credits recognize areas covered over the course of the diploma program rather than one-to-one course equivalents, numerical grades will not be recorded on the Trent transcript. Completion of these credits will be recognized with a "Pass" grade.
- 14 Science courses must be completed for an Honours degree in Science.

GEORGIAN COLLEGE DEGREE COMPLETION PROGRAMS

Computer Science (Bachelor of Science, Honours)

Qualified students may enter the Computer Science program at Trent University on an advanced basis, subsequent to successful completion of the three-year (36-credit) diploma program in Computer Programmer Analyst with an average of 75%.

Notes

- As transfer credits recognize areas covered over the course of the diploma program rather than one-to-one course equivalents, numerical grades will not be recorded on the Trent transcript. Completion of these credits will be recognized with a "Pass" grade.
- 14 Science courses must be completed for an Honours degree in Science.

Diploma Programs

Diploma programs exist in order to accommodate students who wish to undertake focussed study in an area over a one- or two-year period. The Diploma is awarded upon successful completion of the program. With it is included a Trent University transcript identifying all courses undertaken and grades received. Upon successful completion of the Diploma, students may apply for admission to a Bachelor's program. Credits earned in the Diploma program are transferable to the Bachelor's program.

The following Diploma programs are available:

- Diploma in Canadian Studies, see Canadian Studies (p. 55)
- Diploma in Indigenous Environmental Studies, see Indigenous Environmental Studies (p. 139)
- Diploma in Native Management & Economic Development, see Native Management & Economic Development (p. 161)
- Diploma in Native Studies, see Native Studies (p. 162)

Emphases

Emphases, consisting of groups of courses with a particular focus, are available as a complement to regular degree programs.

To be eligible, students must successfully complete the requirements of both the Emphasis program and the Honours or General program in which they are enrolled. The transcripts of students who have done so will contain the notation "with an Emphasis in [the appropriate Emphasis]."

The following Emphases are available:

- Applied Ethics
- Archaeology
- Classical History
- Food & Agriculture
- Geographical Information Systems
- Global Studies
- Globalization: Communities & Identities
- International Political Economy
- Law & Policy
- Linguistics
- Medieval & Renaissance Studies
- Northern & Polar Studies
- Teacher Education
- Travel Studies

EMPHASIS IN APPLIED ETHICS

Telephone: (705) 748-1011 ext. 1814

Fax: (705) 748-1131

E-mail: philosophy@trentu.ca

Web: www.trentu.ca/philosophy

Program Co-ordinator

F. C. McKinnon, B.A. (McGill), B.Phil., D.Phil. (Oxford) *Philosophy*

The Emphasis in Applied Ethics is available to students in any Honours or General program. A solid grounding in critical thinking, ethical theory and applied ethics is increasingly important for the many different kinds of careers that involve developing reasoned responses to public policy initiatives. The Emphasis in Applied Ethics is designed for students interested in careers as professional ethicists in fields such as medicine, environmental resource management, computing, law, or business. It also provides a good background for students interested in careers that involve advocacy on public policy issues.

The transcripts of students graduating with an Honours or General degree who have successfully completed the requirements of the Emphasis will contain the notation "with an Emphasis in Applied Ethics."

Students earn the Emphasis in Applied Ethics by successfully completing the following five courses: *Philosophy 105, 230, 335, Philosophy – Computer Studies 337, Philosophy – Administration 420 or Philosophy – Environmental & Resource Studies 330.*

EMPHASIS IN ARCHAEOLOGY

Ancient History & Classics

Telephone: (705) 748-1011 ext. 1814

Fax: (705) 748-1131

E-mail: ahc@trentu.ca

Web: www.trentu.ca/ahc

Anthropology

Telephone: (705) 748-1011 ext. 1325

Fax: (705) 748-1613

E-mail: anthro@trentu.ca

Web: www.trentu.ca/anthropology

Program Co-ordinators

Chairs of departments of Anthropology and of Ancient History & Classics

The Emphasis in Archaeology is available to students in any Honours or General program, although it will clearly supplement the programs of those majoring in Anthropology and/or Ancient History & Classics. It is intended primarily for students interested in graduate studies and career preparation in archaeology, and for those wishing to deepen their knowledge of this interdisciplinary field. Students will be exposed to comparative world prehistory, archaeological field methods and laboratory techniques, and the archaeology of specific regions (Old World and New World). The Emphasis will give students basic training in the practical, and theoretical, aspects of archaeological research. Current areas of academic expertise are the archaeology, ancient art, and architecture of the Americas, Europe, and the Classical Mediterranean world.

The transcripts of students graduating with an Honours or General degree, who have successfully completed the requirements of the Emphasis program, will contain the notation "with an Emphasis in Archaeology."

Notes

- Courses in the Archaeology program may have prerequisites. In planning their Emphasis, students should carefully take this into account.
- Students are advised to contact one of the program co-ordinators at the end of the first year to register for the Emphasis in Archaeology.

Courses

The Emphasis in Archaeology consists of at least six credits, including:

- *Anthropology 212* and *310*
- *Anthropology 300* or *315* or *Classical Civilization 330*
- 1 credit from each of Categories A and B
- 1 additional credit from Category A or B or C

Category A (New World)

<i>Anthropology 311</i>	<i>Anthropology 411</i>
<i>Anthropology 314</i>	<i>Anthropology 412</i>
<i>Anthropology 371H</i>	<i>Anthropology 413</i>
<i>Anthropology 372H</i>	

Category B (Old World)

<i>Anthropology 312</i>
<i>Classical Civilization – Anthropology – Geography 223H</i>
<i>Classical Civilization – Anthropology 220H</i>
<i>Classical Civilization – Anthropology 226</i>
<i>Classical Civilization – Anthropology 322</i>
<i>Classical Civilization – Anthropology 325H</i>
<i>Classical Civilization – Anthropology 334H</i>

Category C (Methods)

<i>Anthropology 300</i>	<i>Anthropology 414H</i>
<i>Anthropology 315</i>	<i>Anthropology 415H</i>
<i>Anthropology 363H</i>	<i>Classical Civilization 330</i>
<i>Anthropology 365H</i>	

Students who wish to include a Reading course, Special Topic course, or Thesis course that deals with archaeology as one of the six credits toward the Archaeology Emphasis must obtain departmental permission in advance to register, and get written approval of both program co-ordinators.

EMPHASIS IN CLASSICAL HISTORY

Telephone: (705) 748-1011 ext. 1814
Fax: (705) 748-1131

E-mail: ahc@trentu.ca
Web: www.trentu.ca/ahc/

Program Co-ordinator

Chair of the department of Ancient History & Classics

The Emphasis in Classical History is available to students majoring in any degree program, although it will clearly supplement the programs of those majoring in Ancient Greek & Roman Studies. It is intended to recognize an emphasis upon the study of Classical History and on the methods of classical historians.

The transcripts of students graduating with an Honours or General degree who have successfully completed the requirements of the Emphasis will contain the notation "with an Emphasis in Classical History."

Students earn the Emphasis in Classical History by completing at least six credits in Classical History, including *Classical History 100* and *Classical History 201*.

EMPHASIS IN FOOD & AGRICULTURE

Telephone: (705) 748-1011 ext. 1388
 Fax: (705) 748-1624

E-mail: jclapp@trentu.ca or
 thutchinson@trentu.ca

Program Co-ordinators

J. Clapp, B.A. (Michigan), Ph.D. (London), *International Development Studies, Environmental & Resource Science/ Studies*; **T. Hutchinson**, B.Sc. (Manchester), Ph.D. (Sheffield), *Environmental and Resource Science/Studies, Biology*

The Emphasis in Food & Agriculture is available to students in Honours or General programs both in Science and Arts. It is intended for students who wish to better understand the basis of our food supply, including the methods of food production, the nature of the food chain with humans at its terminus (agroecosystems), the technological and biological aspects of the historical changes in food production; conventional industrial and alternative agriculture; world trade, and trade barriers; land tenure, commodification of food, and concepts of sustainable agriculture. Concerns over the health of our food supply will be covered in some of the course offerings, including chemical and microbial contamination. Science and arts streams are possible in this emphasis.

The transcripts of students graduating with an Honours or General degree who have successfully completed the requirements of the Emphasis will contain the notation "with an Emphasis in Food & Agriculture."

Note

- Students are advised to contact one of the program co-ordinators at the end of their first year to register for the Emphasis in Food & Agriculture.

Courses

Students completing the Emphasis will be required to take the following courses for a total of 2.0 credits:

- *Environmental & Resource Science 335H*
- *International Development – Anthropology 221*
- *Biology 329H*

Students are also required to take an additional 3.0 credits from the following courses:

- *Environmental & Resource Science 336H*
- *Environmental & Resource Science 435H*
- *Environmental & Resource Science – Geography 365H*
- *Canadian Studies – Geography – Environmental & Resource Studies – Native Studies 204*
- Thesis (2 credits) and/or reading courses (through any department or program, provided the topic is approved by the emphasis co-ordinators)
- Community-based Education program courses (that link to food or agriculture issues and that are approved by the emphasis co-ordinators)

EMPHASIS IN GEOGRAPHICAL INFORMATION SYSTEMS

See Joint Programs with Fleming College (p. 222)

EMPHASIS IN GLOBAL STUDIES

Telephone: (705) 748-1314
 Fax: (705) 748-1626

E-mail: tip@trentu.ca
 Web: www.trentu.ca/tip

Program Co-ordinator

A. M. Allcott, M.A. (Utah), Ph.D. (SUNY, Buffalo)

The Emphasis in Global Studies is available to students in any Honours or General program who fulfil the following requirements: a year of study abroad and successful completion of six courses in international and global studies from a list approved by the Global Studies Advisory Committee (available in the Trent International Program office) and including at least two of: *International Development 100, History 170 and Politics 220*.

The transcripts of students graduating with an Honours or General degree, who have successfully completed the requirements of the Emphasis, will contain the notation "with an Emphasis in Global Studies."

EMPHASIS IN GLOBALIZATION: COMMUNITIES & IDENTITIES

Telephone: (705) 748-1011 ext. 1837

E-mail: davinabhandar@trentu.ca**Program Co-ordinator****D. Bhandar**, M.A., Ph.D. (York), *Canadian Studies*

The Emphasis in Globalization: Communities & Identities is available to students in any Honours or General program except a joint-major in *Globalization: Communities & Identities*. It is intended for students with a particular interest in the human and cultural dimensions of globalization.

Encouraging students to combine relevant courses in the social sciences with those in the humanities, the program focuses on debates about globalization and its effects on culture, identity, community and diaspora. Themes include the impact of globalization on gender, race, ethnicity and Aboriginal rights; postcolonialism; the globalization of popular culture, film, music and mass media; border cultures and hybrid literatures; world cities and their networks; and human rights in a global perspective.

The transcripts of students graduating with an Honours or General degree, who have successfully completed the requirements of the Emphasis, will contain the notation "with an Emphasis in Globalization: Communities & Identities."

Notes

- Courses in the Emphasis in Globalization: Communities & Identities may have prerequisites. In planning their Emphasis, students should carefully take this into account.
- The Emphasis in Globalization: Communities & Identities excludes a joint-major in *Globalization: Communities & Identities*.
- The same courses may simultaneously satisfy the requirements of both a major and the Emphasis.

The Emphasis in Globalization: Communities & Identities consists of six credits:

- *Politics 220, Cultural Studies – Native Studies 230, Anthropology 200*
- 1 credit from category A and 2 credits from category B

A

Politics 320H, 326H, 336H, 420H, 425H, 428, 495
Politics – International Development 327, 423H, 427H
Politics – International Development – Canadian Studies 424
Politics – Sociology 323

B

Anthropology 408H, 409H, 450H
Anthropology – International Development 301, 304, 306, 407, 475H, 476H
Canadian Studies 4952H
Canadian Studies – English 466
Canadian Studies – Politics – Sociology 300
Cultural Studies 345
Cultural Studies – International Development 332
Cultural Studies – Women's Studies 220
English 316H, 317H
Environmental & Resource Studies – International Development – Politics 360
Environmental & Resource Studies – International Development – Politics 461H
History 200, 450
History – Canadian Studies 304
History – International Development 2401H, 2402H, 2471H, 3401H, 3402H
International Development 395, 4971H, 4972H
International Development – Politics 322H
International Development – Politics 425H
International Development – Sociology 396H
Native Studies 430
Native Studies – Environmental & Resource Studies 260, 363
Native Studies – International Development 305, 360, 482
Sociology 347, 382H, 480
Women's Studies 300
Women's Studies – International Development 225
Women's Studies – Political Studies 388
Women's Studies – Sociology 386H, 387H.

EMPHASIS IN INTERNATIONAL POLITICAL ECONOMY

Telephone: (705) 748-1011 ext. 1004

E-mail: ehelleiner@trentu.ca

Program Co-ordinator**E. Helleiner**, M.A., Ph.D. (London), *Political Studies*

The Emphasis in International Political Economy (IPE) is available to students in any Honours or General program except a joint-major in International Political Economy. It is intended for students with a particular interest in the interconnected nature of the study of politics and economics at the international and global levels. The globalization of economic life has raised the prominence of the study of IPE in recent years among scholars and students from a wide variety of academic backgrounds such as Economics, International Development Studies, and Political Studies, as well as Anthropology, Business Administration, Canadian Studies, Environmental & Resource Science/Studies, Geography, History, Native Studies, Sociology and Women's Studies.

The transcripts of students graduating with an Honours or General degree, who have successfully completed the requirements of the Emphasis, will contain the notation "with an Emphasis in International Political Economy."

Notes

- Courses in the Emphasis in International Political Economy may have prerequisites. In planning their Emphasis, students should carefully take this into account.
- An Emphasis in International Political Economy excludes a joint-major in International Political Economy.
- The same courses may simultaneously satisfy the requirements of both a major and the Emphasis.

The Emphasis in International Political Economy consists of six credits:

- *Economics 101H, 102H, International Development 100, Politics 220*
- 1 credit from each of A, B, and C

A*Economics 311H, 312H, 362H, 398H**Economics – International Development 231H, 333H***B***Environmental & Resource Studies – Canadian Studies – Politics 460H**Environmental & Resource Studies – International Development – Politics 461H**International Development – Canadian Studies – Politics 424**Politics 320H, 322H, 324H, 325H, 326H, 420H, 425H, 428**Politics – Canadian Studies 321H**Politics – International Development 327, 423H, 427H**Politics – Sociology 323H**Women's Studies – Politics 388***C***Anthropology – International Development 301, 304, 407**Environmental & Resource Studies – International Development – Politics 360**History – International Development, 2401H, 2402H, 2471H, 2472H, 3401H, 3402H**International Development 200, 397H, 400, 422**International Development – Anthropology 221**Native Studies – International Development 305**Women's Studies – International Development 225***EMPHASIS IN LAW & POLICY**

Telephone: 748-1011 ext. 1210

E-mail: jdriscoll@trentu.ca

Fax: 748-1047

Web: www.trentu.ca/law

Program Co-ordinator**J. Driscoll**, M.A., Ph.D. (Queen's), *Canadian Studies*

The Emphasis in Law & Policy is available to students in any Honours or General program. A knowledge of law and policy is essential for many career paths and for informed citizen participation in public affairs. The Emphasis in Law & Policy is intended for students interested in career preparation, critical reflection on legal and policy questions, and advocacy on public issues.

The transcripts of students graduating with an Honours or General degree, who have successfully completed the requirements of the Emphasis, will contain the notation "with an Emphasis in Law & Policy."

Note

- Courses in the Law & Policy program may have prerequisites. In planning their Emphasis, students should carefully take this into account.

Courses

The Emphasis in Law & Policy consists of six credits from the courses listed below. These must include at least 1.5 credits from category A and at least 1.5 credits from category B.

Category A (Policy)

Canadian Studies – History – Politics 477
Economics 302H, 317H, 384H
Economics – Environmental & Resource Studies 381H
Economics – Environmental & Resource Studies – Canadian Studies, 378H, 382H
Environmental & Resource Studies – Politics 210H
Environmental & Resource Studies – Canadian Studies 467H
Environmental & Resource Studies – Canadian Studies – Politics 310
Environmental & Resource Studies – International Development – Politics 461H
History 337H
Native Studies 200, *Native Studies – Politics* 302
Politics 100, 320H, 405, 405H, 432
Politics – Canadian Studies 201, 321H, 362, 362H
Politics – Canadian Studies – Environmental & Resource Studies 267, 267H, 460H
Sociology 366
Women's Studies – Canadian Studies – Politics 400

Category B (Law)

Administration 325H
Environmental & Resource Studies 311H, 325H, 425H
History 385
Native Studies 340
Philosophy 105
Philosophy – Politics 232
Politics 268H, 367
Politics – Canadian Studies 309
Sociology 365H
Women's Studies – Canadian Studies – Politics 237H
Women's Studies – Political Studies – Canadian Studies 238H

EMPHASIS IN LINGUISTICS

Telephone: (705) 748-1011 ext. 1527
 Fax: (705) 748-1630

E-mail: rhagman@trentu.ca
 Web: www.trentu.ca/modernlanguages

Program Co-ordinator

R. S. Hagman, Ph.D. (Columbia), *Modern Languages & Literatures*

The Emphasis in Linguistics is available to students pursuing a major or minor within the degree programs offered by the department of Modern Languages & Literatures (or in Greek and Latin). The Emphasis enables students to add to their programs a series of courses designed specifically to complement their studies in a language or languages. In the first year, it includes a full course in general linguistics, consisting of material basic to all future language study. In the second year, a half course in phonetics provides a secure basis for teaching and learning accurate pronunciation, followed by a half course in historical linguistics as a preparation for understanding the historical origins of their language of interest. The third year half courses in Romance and Germanic linguistics are designed to broaden the students' perspective on their language of interest and solidify their knowledge of its early historical context.

The transcripts of students who have successfully completed the requirements of the emphasis program will contain the notation "with an Emphasis in Linguistics."

Courses

The Emphasis consists of *Modern Languages 101, 302H, 303H* and *Modern Languages – Anthropology 201H, 202H. Modern Languages 301 may be substituted for Modern Languages 302H/303H.*

EMPHASIS IN MEDIEVAL & RENAISSANCE STUDIES

Telephone: 748-1011, ext. 1813
Fax: (705) 748-1823

E-mail: skeefer@trentu.ca
Web: www.trentu.ca/mars

Program Co-ordinator

S. L. Keefer, B.A., M.A., Ph.D. (Toronto), *English Literature*

The Emphasis in Medieval & Renaissance Studies is available to students in any Honours program. The Emphasis answers a growing student interest in the thought, literature and politics of the pre-industrial world. While this period is often romanticized as a "golden fantasy realm," a detailed study of the period 600-1700 C.E. allows students a window on the development of Western European – and, by extension, a measure of North American – cultural ideology. Students must declare a focus in either in historical or literary studies.

The transcripts of students graduating with an Honours degree who have successfully completed the requirements of the Emphasis will contain the notation "with an Emphasis in Medieval & Renaissance Studies."

Note

- It is strongly recommended that students choose elective courses from the offerings of the department of Ancient History & Classics.

The Emphasis in Medieval & Renaissance Studies consists of:

- *Latin 200*
- for the focus on historical studies 2 credits, and for the focus on literary studies 3 credits in *English 220, 230, 250H, 253H, 331H, 332, 333H, 420, 431, 432, 433* or any 490 credit in the A or B category
- for the focus on historical studies 3 credits, and for the focus on literary studies 2 credits in *History 200, 205, 355H, 380* or any credit in the Medieval or Early Modern period at the fourth-year level
- at least one of the credits in the discipline of focus at the 400-level

EMPHASIS IN NORTHERN & POLAR STUDIES

Telephone: (705) 748-1011 ext. 1440
Fax: (705) 748-1205

E-mail: geography@trentu.ca
Web: www.trentu.ca/geography

Program Co-ordinator

P. M. Lafleur, B.Sc. (Brandon), M.Sc. (Trent), Ph.D. (McMaster), *Geography*

The Emphasis in Northern & Polar Studies is available to students in any Honours or General program. It is designed to stimulate interest in the higher latitudes in all academic departments and programs at Trent. It is also designed to give students from the North an opportunity to extend and deepen knowledge of their home regions.

The transcripts of students graduating with an Honours or General degree, who have successfully completed the requirements of the Emphasis, will contain the notation "with an Emphasis in Northern & Polar Studies."

Notes

- For the purposes of this program, the definition of "north polar regions" is that of the Northern Scientific Training Grants Program of Indian and Northern Affairs Canada. This definition includes northern parts of most provinces. "South polar regions" include the continent of Antarctica and the sub-Antarctic islands. The Committee on Northern & Polar Studies will rule where eligibility is in doubt.

- Students must have completed at least one month of formal post-secondary study in the north or south polar regions. Such study may take the form of course work or independent or supervised research. As an alternative, students may have lived in the north or south polar regions for more than one year during their teens or later years. Proof of polar experience must be submitted to the program co-ordinator at least six months before graduation.
- Credits from Yukon and Arctic Colleges, acceptable to Trent University, may be counted towards this emphasis to a maximum of 2.5 credits.
- Students are encouraged to consult the program co-ordinator about their selection of courses for the Emphasis at the start of their second year. They must do so at least six months before graduation. Early contact with the program co-ordinator has the advantage of putting the student in touch with others, students and faculty, with like interests.
- The permission of the instructor must be obtained for all courses, before the course begins, with the exception of courses marked with an asterisk (*) below. The instructor must notify the program co-ordinator that she/he is aware that a student is taking the course for the Emphasis and ensure that a portion of the course work undertaken by the student is directed to study of the polar regions.
- No more than three credits in reading, special topic or thesis courses may be included in the program. Students interested in pursuing these options must obtain the permission of the instructor and of the program co-ordinator. Permission forms are available from the program co-ordinator.

The Emphasis in Northern & Polar Studies consists of five credits, at least two credits from the following courses:

Anthropology 311
Anthropology 398H
Anthropology – Canadian Studies – Native Studies 253
Anthropology – Native Studies 455
Canadian Studies – Geography – Environmental & Resource Studies 200H
Canadian Studies – History 300
**Canadian Studies – History 324*
Environmental & Resource Studies – Economics – Canadian Studies 378H
Environmental & Resource Studies – Canadian Studies 250
Environmental & Resource Studies 257H
Environmental & Resource Studies – International Development 360
Environmental & Resource Studies – Native Studies 363
Geography 342H
**Geography – Canadian Studies 364H*
Geography – Canadian Studies – Environmental & Resource Studies 203H
History 370
History – Canadian Studies 407
History – Canadian Studies – Native Studies 425
*Native Studies 200, 255, *481*
**Native Studies – Canadian Studies 285*
Native Studies – International Development 305

Students are encouraged to view on-line course options through the University of the Arctic (www.uarctic.org). All University of the Arctic courses fulfil Emphasis course requirements.

EMPHASIS IN TEACHER EDUCATION

Telephone: (705) 748-1011 ext. 1455
 Fax: (705) 748-1205

E-mail: edemphasis@trentu.ca
 Web: www.trentu.ca/education/emphasis

Program Co-ordinator

M. Berrill, B.Sc. (McGill), M.Sc. (Hawaii), Ph.D. (Princeton), *Biology*

The Emphasis in Teacher Education is intended for students who are planning a single- or joint-major Honours program, who wish to prepare themselves to teach at the Elementary or Secondary level, and who plan to apply to a Consecutive Teacher Education program on the completion of their Honours degree. The Emphasis does not guarantee admission to any Consecutive Program, but the transcripts of students graduating with an Honours degree, who have successfully completed the requirements of the Emphasis, will contain the notation "with an

Emphasis in Teacher Education.”

Students must have an overall average of 70% at the end of their final year.

Since the course requirements for admission to Consecutive Programs differ for elementary and secondary candidates, the requirements for the Emphasis in Teacher Education also differ accordingly.

Although the requirements for the Emphasis in Teacher Education are possible to meet within the twenty credits required for the completion of an Honours degree, students may decide or need to take one or two extra credits to fulfill the requirements of the Emphasis.

There will be meetings of all students in the Emphasis in Teacher Education, at the time of September registration and in late February, before April pre-registration.

Entry into the Emphasis in Teacher Education

Students enter the Emphasis in their first year. Qualified second year students who have at least a 70% average may also be able to enter the Emphasis. All course programs will be reviewed by the co-ordinator before admission to the final-year school placement course.

ELEMENTARY STREAM

In addition to completion of the requirements for a single- or joint-major B.A. or B.Sc., there are five required credits for the Emphasis. These include a minimum of two credits in Curriculum Studies, two credits in Foundational Studies, and a final-year school placement credit. Curriculum Studies include one credit in Mathematics or Science, and one credit in visual or performing arts, selected from a list of designated courses. Foundational Studies include two credits from a list of designated courses in Psychology, Sociology, Native Studies and French.

Some of the credits required may be possible to include as regular degree requirements (e.g. Biology, Chemistry, Cultural Studies, Environmental & Resource Science/Studies, English, French, Geography (Physical), Mathematics, Native Studies, Physics, Psychology, Sociology). Students will need to plan their programs carefully in order to ensure that they take necessary prerequisite courses for any of the designated courses. The designated courses are those that, for example, would be suitable for admission into the Trent or Queen's Consecutive Education Programs, and should be suitable for admission into other Consecutive Programs across Canada.

1) Curriculum Studies (2 credits)

- 1.0 credit in Mathematics or Science selected from any *Mathematics* credit or any credit in *Biology*, *Chemistry*, *Environmental & Resource Science*, *Physical Geography* or *Physics* that includes regular lab work (these include *Chemistry 150*, as well as *Biology 261H* and *262H*, *Environmental & Resource Science 270*, *Mathematics 280* and *Physics 209*, which are designed for potential elementary teachers who lack a background in *Mathematics* or *Science*)
- 1.0 credit in visual or performing arts selected from: *Anthropology 253*, *351*, *Cultural Studies 211*, *216*, *217*, *245*, *270*, *280*, *305*, *311*, *315*, *345*, *346*, *370*, *375*, *380*, *470*

2) Foundational Studies (2 credits)

- 2.0 credits selected from: *Psychology 202H*, *225H*, *227H*, *281H*, *307H*, *308H*, *323H*, *381H*, *383H*, *Native Studies 330*, *Sociology 220*, *334H*, *370*, *Sociology – Canadian Studies 341H*, *Sociology – Women's Studies 343H*, *Canadian Studies – History – Sociology 300*

3) Education 400 – School Placement Experience

The school placement course is open only to students who have at least an overall average of 70% and are in their final year in the Emphasis in Teacher Education. The placement will focus on working with pupils with special needs and will involve two half days per week for 18 weeks in a primary, junior or intermediate classroom. Workshops will be held before and intermittently throughout the placement period.

SECONDARY STREAM

In addition to, or as part of, the requirements for a single- or joint-major Honours B.A. or B.Sc., there must be a total of at least eight Curriculum Studies credits. Of the eight Curriculum Studies credits at least five must be in a first “teachable” subject and three credits in a second “teachable” subject. As well there must be a minimum of two credits in Foundational Studies from a list of designated courses in Psychology, Sociology, Native Studies and French, and a final-year school placement credit. Some of the credits required may be possible to include as regular degree requirements. Students will need to plan their programs carefully in order to ensure that they take necessary prerequisite courses for any of the designated courses.

1) Curriculum Studies (5 credits in first teaching subject, 3 credits in second teaching subject):

Teaching subjects include: Biology, Chemistry, Computer Science, Dramatic Arts, English, Environmental Science, French, Geography, History, Math, Native Studies, Physics, and Visual Arts. The minimum 5+3 requirement can be met through a single-major Honours, with three additional courses in a second teaching subject, or through a joint-major Honours in two teaching subjects.

2) Foundational Studies (2 credits)

– 2.0 credits selected from: *Psychology 202H, 225H, 227H, 281H, 307H, 308H, 323H, 381H, 383H, Native Studies 330, Sociology 220, 334H, 370, Sociology – Canadian Studies 341H, Sociology – Women's Studies 343H, Canadian Studies – History – Sociology 300*

3) Education 400 – School Placement Experience

The school placement course is open only to students who have at least an overall average of 70% and are in their final year in the Emphasis in Teacher Education. The placement will focus on working with pupils with special needs and will involve two half days per week for 18 weeks in a primary, junior or intermediate classroom. Workshops will be held before and intermittently throughout the placement period.

EMPHASIS IN TRAVEL STUDIES

E-mail: jharrison@trentu.ca

Program Co-ordinators

J. Harrison, B.A. (Saskatchewan), M.A. (Calgary), D.Phil. (Oxford), *Anthropology*; **A. Law**, B.A.S. (Sydney), M.A., Ph.D. (Alberta), *Sociology*

The Emphasis in Travel Studies is available to students in any Honours program. It is intended for students who have a particular interest in the broad sociocultural dimensions of travel and tourism. The required courses speak specifically to the phenomenon of travel and tourism. Students will be exposed to a dialogue of critical thinking about the history of tourism in the Western World, the fascination that the motif of "travel" and "journey" has held in that world, and the social, cultural and environmental impact that the phenomenon of tourism has had, and increasingly has, around the world.

The transcripts of students graduating with an Honours degree, who have successfully completed the requirements of the Emphasis, will contain the notation "with an Emphasis in Travel Studies."

Notes

- Students are advised to contact one of the program co-ordinators at the end of their first year to register for the Emphasis in Travel Studies.
- Students doing a research project involving human subjects should have completed an appropriate field methods course before commencing their research for the Emphasis in Travel Studies. In addition, they must have their project approved by the appropriate departmental ethics committee.
- Students are strongly encouraged to study a language other than English, at least to the intermediate (second year) level.

Courses

The Emphasis in Travel Studies consists of at least five credits. Three credits must be chosen from the following courses: *Anthropology – Canadian Studies 408H, Anthropology – Canadian Studies 409H, Geography 231H, 337H, Sociology 451H, 480* (when taught by A. Heitlinger), *English 470*.

During their third or fourth year students must earn at least two credits in a major research project focused on tourism and travel. These credits may be earned through research project(s) which form the basis of a double credit Honours thesis, a TCCBE project, reading courses, special topic courses or regularly scheduled courses (other than those listed above), in which the student conducts research on a subject pertinent to the theme of Travel Studies. The research may take the form of a project in the Trent Centre for Community Based Education, part of the course work in a year abroad program or an independently generated research initiative. The research project must satisfy the requirements of the thesis supervisor/course instructor and be approved by one of the program co-ordinators. In the case of an Honours thesis, one of the program co-ordinators or one of the faculty participating in the Emphasis in Travel Studies is normally an official reader of the work.

International Educational Opportunities

Trent University has a long and successful history of welcoming students from around the world, as well as promoting international studies and study abroad opportunities. With more than 550 international students from 95 different countries, Trent has a strong international community at its core. For information on international admissions and programs, please visit www.trentu.ca/tip.

STUDY ABROAD

Trent students have opportunities to spend a part of their undergraduate program on one of many programs overseas. Through the Trent International Study and Exchange Program (TISEP), students can participate in an exchange with universities in Europe, the United States, Latin America, Africa and Asia. The Trent International Program (TIP) provides study abroad opportunities for students in all disciplines to pursue studies at universities throughout the world. Specific departmental Study Abroad programs are also offered through Business Administration (France, Hungary, Sweden), Canadian Studies (USA), International Development Studies (Ecuador, Ghana), Environmental & Resource Studies (England and USA), Modern Languages & Literatures (France, Germany, Spain), Native Studies (Thailand), Political Studies (Germany) and Physics (England).

INTERNATIONAL ENTRANCE SCHOLARSHIPS

International Entrance Scholarships enable excellent scholars from around the world to study at Trent, thereby enhancing the international character of the University and contributing to an intellectually challenging and culturally exciting environment for all members of the Trent community. These awards recognize high academic standing and outstanding extracurricular and community service. Preference is normally given to applicants who would not otherwise have the financial resources necessary to study at Trent. Scholarship recipients are expected to be active participants in college and university life and to assume a leadership role in international activities, both at the University and within the broader community. See Scholarships for a list of International Scholarships or visit the website at www.trentu.ca/tip.

BURSARIES – INTERNATIONAL STUDY AWARDS

Bursary funds are made available through a few International Study Awards, designed to encourage and support the broadening of the academic experience through international study. These awards assist both Trent students planning to study abroad and international scholars attending Trent for a year of study. Each award has specific terms, and all are awarded on the basis of academic achievement and financial need. See *Bursaries* for a list of International bursaries or visit the website at www.trentu.ca/tip.

TRENT INTERNATIONAL PROGRAM (TIP)

Telephone (705) 748-1314
Fax: (705) 748-1626

E-mail: tip@trentu.ca
Web: www.trentu.ca/tip

Director

A. M. Allcott, M.A. (Utah), Ph.D. (SUNY, Buffalo) (705) 748-1280

International Programs and Services Manager

C. B. Awe (705) 748-1300

International Student Recruiter and Admissions Officer

T. Corkum (705) 748-1696

The Trent International Program (TIP) offers an exciting opportunity for Canadian and international students to live and study together in a global community. Students in the program, many of whom intend to pursue international careers, are committed to deepening their understanding of world issues, increasing their sensitivity to different cultures and, in the long term, promoting international learning and understanding.

TIP welcomes all Trent students, and has drawn participants from all regions of the world and from all of Canada's provinces and territories. Those who choose to be involved with the program may pursue a major or joint-major in any field, choosing from course offerings available to all Trent students. TIP students gather together regularly to explore international issues through a World Affairs Colloquium, and to participate in a broad range of social, educational and cross-cultural events.

Several departments and programs offer courses in global and international studies. Students may combine courses from three or more disciplines in a Special Concentration in Global Studies, complement their major or joint majors with an Emphasis in Global Studies or enrol in joint-major programs in Globalization: Communities and Identities or International Political Economy. (See *Global Studies* in the *Programs of Study* section of the Calendar.)

TRENT-ESL: ENGLISH FOR UNIVERSITY**TRENT-ESL Co-ordinator****F. Capogna** (705) 748-1805

The Academic Skills Centre, in co-operation with the Trent International Program, offers TRENT-ESL: *English for University*, a program in English for academic purposes designed for students who meet all requirements for admission to Trent except that of English-language proficiency (TOEFL computer-based score of 237, paper-based score of 580 or equivalent). Students who are placed in the ESL 4 and 5 levels may begin to take a limited number of credit courses in conjunction with their ESL courses. After having successfully completed the ESL level 5 program (with a CAEL score of 60 or higher), students can proceed to full-time degree studies. Students may begin in the ESL program in September, January or May. For further information, or to obtain an application form, for TRENT-ESL: *English for University*, contact the Academic Skills Centre, the Trent International Program or visit www.trentu.ca/esl.

ADVISORY SERVICES FOR INTERNATIONAL STUDENTS

TIP provides advisory services for international students, including orientation and assistance with adjusting to life in Canada and at Trent University. Counselling and referral services are available for employment, finances, scholarships, health insurance, language proficiency, consumer services, academic challenges and residential life.

STUDY ABROAD OPPORTUNITIES

Trent students are encouraged to spend one year of their undergraduate programs studying in another country. The Trent International Study and Exchange Program (TISEP) offers exchange and study-abroad opportunities in many countries, including England, Scotland, Wales, Finland, Iceland, Spain, France, Germany, Hungary, South Africa, Mauritius, Malaysia, Korea, Japan, Sweden, Australia, the United States and Mexico. The year abroad normally takes place in the third year of the student's Honours program. Students may participate in a TIP exchange or co-ordinate, with TIP's assistance, their own study-abroad arrangements.

All students wishing to pursue a term or year of study outside Canada must apply through TISEP and be approved in order to receive academic credit for the courses undertaken abroad.

Pre-planning for the year abroad should begin as early as the course selection process during the student's first year. The formal process begins in the Fall session of the student's second year, when students attend TISEP Information Sessions and the Work Study Abroad Fair, and fill out application forms, which are available at the TIP office. The deadline for submitting applications is February 2. Applications are reviewed and approved by the TISEP Advisory Committee and, subsequently, successful applicants are forwarded for consideration by host universities. Students are notified by mid-April of their acceptance. Placement in a host university is confirmed upon successful completion (with the maintenance of an overall B average) of their current academic year, and their participation in pre-departure sessions. Upon successful completion, all pre-approved courses will be counted towards a student's Trent degree.

TRENT INTERNATIONAL STUDENTS' ASSOCIATION (TISA)

This student-run organization includes both Canadian and international students who wish to internationalize their Trent experience. TISA works closely with TIP to foster a campus environment that encourages and supports cultural diversity. Members obtain valuable leadership skills organizing a wide variety of activities, including festivals, lectures, debates, films and guest speakers, all designed to enhance and deepen awareness of international themes and global issues.

OTHER INTERNATIONALLY ORIENTED GROUPS

Several other internationally-oriented clubs and groups are also active on campus and maintain ties with TIP. These include: Asian Dialogue at Trent (ADAT); Association of Russian Speakers; Canadian Crossroads International; Comparative Development Students' Association; Hispanic Organization of Latin Awareness (HOLA); Kawartha World Issues Centre (KWIC), a local global educational NGO; Indian Sub-Continent Students At Trent; Ontario Public Interest Research Group (OPIRG); South Asian Students Association At Trent; Trent African and Caribbean Students' Union (TACSU); Trent Chinese Students Council (TCSC); Trent Japanese Association (TJA); Trent Jewish Students' Association (TJSA); Trent Muslim Students Association (TMSA); Trent Oriental Pearl (TOP); and World University Service of Canada (WUSC).

Joint Programs with Fleming College

Trent University, in collaboration with Fleming College, offers the Trent University/Fleming College Nursing program leading to a Bachelor of Science in Nursing (B.Sc.N.) degree (see p. 169).

In addition there are a number of joint programs which extend educational opportunities by combining theory and practice in a number of professional and career fields. These are the Forensic Science program (see p. 116), an emphasis in Geographical Information Systems and a special concentration in Museum Studies (see p. 223).

EMPHASIS IN GEOGRAPHICAL INFORMATION SYSTEMS

The Emphasis in Geographical Information Systems is available to students in the Honours B.Sc. or B.A. program at Trent University in Geography or in Environmental & Resource Science. The transcripts of students graduating with an Honours degree in Geography or in Environmental & Resource Science/Studies, who have successfully completed the requirements of the Emphasis, will contain the notation "with an Emphasis in Geographical Information Systems." The program also leads to an Advanced GIS Applications Specialist Certificate from Fleming College's School of Natural Resources.

Students admitted to the program register as full-time Fleming students during the third year of their Honours program. Classes are held at the Lindsay campus of the School of Natural Resources. Courses lead to a two-semester certificate. Students who complete the certificate with a minimum average of B- (70%) and a minimum of 65% in all courses will receive five upper-level science or arts credits of which three will count as 300-level credits in their major and two will count as unassigned Science or Arts credits.

Application procedures

- Applicants must consult with the chair(s) of the appropriate departments or programs at Trent.
- Completed application forms must be submitted to the chair of Geography by January 20 of the second year.
- Selection is based on the program of courses completed and on cumulative averages to date, including mid-year grades in second year.
- Students are informed of the results of their applications before the deadline for Early Registration at Trent. If their applications are successful they receive letters of acceptance and contact information for the Fleming year of the program.
- Students admitted to the program are also required to apply to the Ontario College Application Service in Guelph. Application forms are available at Trent from the chair of Geography or from the Office of the Registrar, and at Fleming from the Admissions Office.
- Students enrolled in the Fleming program in their third year may participate in Trent's Early Registration for the fourth year of their Trent program.

Fees

Students pay community college fees during the third year of their program (consult the Fleming calendar for details on fees) and Trent fees for the other three years.

Students are also required pay the appropriate fee to the Ontario College Application Service in Guelph.

Facilities

Students in the program have access to the library and faculty at Trent

Courses

The prerequisites for the program consist of at least 10 university credits, with suitable standing towards a Trent Honours degree, including the 100-level introductory course plus at least two additional credits in the student's major.

All students entering the program should have successfully completed *Geography – Environmental & Resource Science 209H* and at least one full credit from Computer Science/Studies.

All Geography majors should have successfully completed *Geography – Environmental & Resource Science – Biology 208H* and either *Geography 211H* or *Geography – Environmental & Resource Studies 251H*.

Students are urged to acquire as much computer programming experience as possible beyond the required courses in order to equip themselves for the Technical Issues component of the Fleming year. Experience in algorithm design with C++ programming and visual Basic Languages would be an asset.

For information on courses, check the calendar for the Honours degree requirements in Geography or Environmental Resource Science/Studies.

Further information

For further information on the program and an application form, contact the chair of the Geography department or of the Environmental & Resource Science/Studies program.

SPECIAL CONCENTRATION IN MUSEUM STUDIES

The Museum Studies program leads to a Special Concentration degree in Museum Studies from Trent University. It also leads to an Advanced Certificate in Museum Studies from Fleming College.

Students admitted to the program register as full-time Fleming students during the third or fourth year of their Honours program. Courses lead to a three-semester certificate. Students who complete the certificate with a minimum average of B- (70%) will receive up to four upper level credits towards a Trent Honours degree.

Application procedures

- Application is made to the Chair of the Museum Studies Committee at Trent, Professor J. Harrison. An information session for the program will be held in early January. If intended applicants cannot attend this session, they should contact well in advance of the deadline the Chair to discuss the application process.
- To apply, students must have taken at least 10 courses towards their Trent degree, including the 100-level introductory course plus at least two additional credits in their major, and must have a cumulative average of a minimum of 70%, including mid-year grades in the year in which the application is made. Students considering applying must be able to meet the Honours degree requirements in their discipline(s) as laid out in the calendar.
- The deadline for applications is January 29, 2005 for the program beginning in September, 2005.
- Students are informed of the result of their application before the deadline for Early Registration at Trent. If their application was successful they receive a letter of acceptance and contact information for the Fleming year of the program.
- At the time of application to the program at Trent, students are required to apply to the Ontario College Application Service in Guelph. Application forms are available at Trent from the Office of the Registrar, and at Fleming from the Admissions Office.
- Students are required to pay the appropriate fee to the Ontario College Application Service in Guelph.
- Students enrolled in the Fleming program in their third year may participate in Trent's Early Registration for the fourth year of their Trent program.

Fees

Students pay community college fees during the Fleming year of their program (consult the Fleming calendar for details on fees) and Trent fees for the other three years.

Facilities

Students in the program have access to the library and faculty at Trent.

Further information

For further information, contact the Chair of the Museum Studies Committee, Professor J. Harrison (jharrison@trentu.ca) or the senior tutor at Julian Blackburn College.

Oshawa and Part-Time Studies

The mandate of Julian Blackburn College, Trent's only non-residential college, is to ensure that resources and services are available to students studying part-time, both in Peterborough and Oshawa, as well as to students studying full-time in Oshawa.

Part-time studies are fully integrated with full-time studies at Trent. Part-time students may enrol in any course offered in the Trent Calendar, day or evening, on- or off-campus, provided they have the prerequisite. Bursaries for part-time students are available.

In Peterborough, services listed under "Academic Support Services" and "Student Services," are fully available to part-time students as is use of the athletic facilities, participation in student government and membership in University committees.

In Oshawa, a program of full- and part-time courses is offered in both the day and evening at Trent University in Oshawa. Please see the JBC seasonal brochures or the JBC web page for a full list of services available in Oshawa.

Applicants for part-time studies apply directly to Trent either on application forms available in the part-time and off-campus studies brochures or on-line at the Trent University website at www.trentu.ca/jbc. Please refer to the Julian Blackburn College section below for details.

JULIAN BLACKBURN COLLEGE (JBC)

Telephone: (705) 748-1229

E-mail: jbc@trentu.ca

Fax: (705) 748-1007

Web: www.trentu.ca/jbc

Oshawa: (905) 721-3003 or (905) 721-3107

Associate Dean and Principal

M. Genoe, B.A., M.A. (Waterloo), M.L.S. (Western Ontario), M.Phil. (Waterloo), M.P.A. (Queen's)

Assistant to the Associate Dean & Principal

P. Lapp, B. A. (Queen's), B.Sc. (Trent), M.A., Ph.D. (Queen's)

Administrative Assistant

T. Menzies, M.A.

Administrative Secretary

D. O'Dette

Senior Tutors and Academic Counsellors

To be named

Manager, Continuing Education

L. Clark, B.A., M.L.S., M.P.A. (Western)

Trent University (Oshawa) Information Co-ordinators

J. Milovick, B.A.; **S. Gunn**

Julian Blackburn College, a non-residential facility, coordinates the academic programs to accommodate the part-time learner. JBC manages the delivery of courses for part-time and full-time students at Trent University in Oshawa. JBC also coordinates the degree programs offered jointly with Fleming College. (See Joint Programs with Fleming College, p. 222.)

Academic Advising

Academic advising services are offered, by appointment, through the JBC office in Peterborough and at the Trent University Office in Oshawa. Advising is also offered by e-mail at jbcstac@trentu.ca.

Application for Admission

Students applying for part-time studies should submit an *Application for Admission* form either from the part-time and off-campus studies brochures or on-line via the website. To receive a brochure, please contact JBC at (705) 748-1229 in Peterborough, (905) 721-3107 in Oshawa or e-mail your request to jbc@trentu.ca or write to:

Julian Blackburn College
Blackburn Hall, Trent University
1600 West Bank Drive
Peterborough, Ontario K9J 7B8

Students applying for full-time studies in Oshawa should apply through the Ontario Universities' Application Centre and refer to the *Registration* and *Fees* sections of this Calendar.

For information about Julian Blackburn College prizes, see the *Financial Aid and Recognition of Academic Excellence* section of this Calendar.

Trent University at the University of Ontario Institute of Technology

Trent University has been offering courses in Oshawa for 30 years and maintains a permanent office in Oshawa at Durham College and the University of Ontario Institute of Technology. It serves neighbouring communities including Newcastle, Bowmanville, Whitby, Ajax and Pickering. Fall/Winter and Summer session courses, offered each year by Trent in Oshawa, enable students to pursue B.A. or B.Sc. degrees in Anthropology, Biology, Computer Science/Studies, Cultural Studies, English Literature, Environmental & Resource Studies, History, Psychology, Sociology and Women's Studies. Oshawa students who wish to pursue other disciplines or Honours degrees can supplement their Oshawa courses with courses taught at the Trent campus in Peterborough. Trent courses in Oshawa are taught on the campus of Durham College and the University of Ontario Institute of Technology. These courses are outlined in the Fall/Winter and Summer part-time and off-campus studies brochures.

Late Afternoon and Evening Courses

To better accommodate part-time students, a number of Trent's regular courses offered in the Fall/Winter session are scheduled either in the late afternoon or evening on the main campus or in the evening in Oshawa. A full listing of these courses is available in the Fall/Winter Session Brochure for part-time and off-campus studies, which is published annually in June and on the JBC Web site.

Summer Session

Summer session courses are offered in both Peterborough and Oshawa. The Summer session is divided into three terms: a 12-week term from early May to late July, in which courses are taught twice a week, an eight-week term from early May to late June, in which courses are taught three times a week, and a six-week term from early July to mid-August, in which courses are taught four times a week. Details are available in the Summer Session Brochure for part-time studies, which is published annually in February and on the JBC webpage. The University also offers field schools in Archaeology, Biology, Environmental & Resource Science/Studies, Geography and Native Studies. Details of these courses are available from the departments concerned.

Student Associations

Julian Blackburn College students based in Peterborough and part-time students in Oshawa are represented by the Julian Blackburn College Student Association (JBCSA). Students taking three or more credits in Oshawa are represented by the University Student Affairs Division of the Student Association – Durham College/University of Ontario Institute of Technology. For further information, contact the JBCSA Executive Director at (705) 748-1380; or the University Student Affairs Vice-President at (905) 721-3083 ext. 230 or sauinivaffairs@dc.uoit.ca.

Special Concentration Programs

Special Concentration programs exist in order to accommodate students whose academic needs cannot be met by majors in any of the existing disciplines.

Special Concentration programs are offered in Global Studies (see p. 127) and, as joint programs with Fleming College in Museum Studies (see p. 223).

Students also have the option of creating their own Special Concentration program. This option is intended for students who have given evidence of superior academic ability and intellectual independence, and is normally available only as an Honours degree. Students choosing this option must provide a unifying rationale for their choice of courses. Proposals which lack a unifying rationale or which are the equivalent of major or joint-major programs missing one or more required courses, will not be approved.

Students apply to the Committee on Undergraduate Standings & Petitions through the senior tutor of their college, before the end of the first year of studies. Before applying, students should consult their Senior Tutor, who will provide advice throughout the process of developing a proposal, ensuring that the program meets the University's degree requirements, and obtaining approval from the academic departments or programs concerned.

Applications should outline the unifying rationale of the program and identify the remaining courses required for the degree in question. In exceptional cases only will the Committee on Undergraduate Standings & Petitions consider retroactive applications for the program from students who have earned more than five credits. In such cases, any credits earned thereafter must be consistent with the rationale of the program.

Once approved, Special Concentration programs are monitored by the Committee on

Undergraduate Standings & Petitions. Changes to course selection may be made only through petition to the Committee.

The Special Concentration program normally consists of 20 credits of which at least two must be at the 400-level.

A maximum of three credits with D grades may be counted towards the degree. After enrolment in the program, a maximum of two credits with D grades may be counted.

Specializations

Specializations provide additional focus within individual programs.

To be eligible, students must successfully complete the requirements of both the Specialization and the Honours or General program in which they are enrolled. The transcripts of students who have done so will contain the notation "with a Specialization in [the appropriate Specialization]."

The following Specializations are available:

- **Biochemistry & Molecular Biology:** Health Sciences (p. 42)
 - **Biology:** Conservation Biology (p. 41); Health Sciences (p. 42)
 - **Business Administration:** Human Resource Management (p. 51); Native Management & Economic Development (p. 161)
 - **Cultural Studies:** Image, Sound & Performance; Writing & Narrative; Film, Video & Media; Social Thought (p. 77)
 - **Environmental & Resource Science/Studies:** Ecological Management (p. 107); Environmental Politics, Policy & Law (p. 107); Environmental Toxicology (p. 107); Indigenous Environmental Studies (p. 139)
 - **French Studies:** Québec Studies (p. 153)
 - **Native Studies:** Indigenous Environmental Studies (p. 139); Native Management & Economic Development (p. 161)
-

Year Abroad Programs

Trent University offers a wide range of Year Abroad programs which enable students to broaden their educational horizons and to add new perspectives to their academic interests, whatever the subject matter. The following Year Abroad programs are available:

- Year Abroad in Ecuador. See International Development Studies (p. 140)
- Year Abroad in France. See Modern Languages & Literatures, French Studies section (p. 152)
- Year Abroad in Germany. See Modern Languages & Literatures, German Studies section (p. 155)
- Year Abroad in Ghana. See International Development Studies (p. 140)
- Year Abroad in Spain. See Modern Languages & Literatures, Hispanic Studies section (p. 158)
- Year Abroad in Thailand. See Native Studies (p. 162)

ADMISSIONS

Telephone: (705) 748-1215

Fax: (705) 748-1629

Office of the Registrar: Blackburn Hall, 1600 West Bank Drive, Peterborough, Ontario K9J 7B8

E-mail: registrar@trentu.ca

Web: www.trentu.ca/admissions

Degree and Diploma Programs

Trent University offers the following undergraduate degree programs:

- Bachelor of Business Administration (Honours)
- Bachelor of Arts (Honours)
- Bachelor of Science (Honours)
- Bachelor of Arts (General)
- Bachelor of Science (General)
- Bachelor of Science in Nursing
- Bachelor of Education (consecutive program)

For information about the Consecutive Bachelor of Education program please refer to page 89 of the calendar.

Trent University offers the following diploma programs:

- Canadian Studies
- Indigenous Environmental Studies
- Native Management & Economic Development
- Native Studies

Admission and re-admission

Trent University welcomes applications from Canadian and international students. Confirmation of an admission offer is required before students may register in courses.

All percentages stated in these admission requirements are based on a pass mark of 50%. For schools and colleges operating on a pass mark other than 50%, the percentage required for admission is adjusted.

The same application procedures, requirements and deadlines apply to applicants for study in Peterborough, Oshawa and other locations.

Application deadlines

Please note that these deadlines also apply to the receipt of all transcripts and other documentation needed to process applications for admission. Early application is always encouraged.

- Full-time admission for September entry: June 1
- Admission to the Concurrent Education program: January 14
- Part-time admission for September entry: August 9
- Admission for January entry: December 10
- Admission for Summer session May entry: April 16
- Admission for Summer session July entry: June 11

Application

Application for Full-Time Studies

Students who wish to apply for full-time studies at Trent should do so through the Ontario Universities' Application Centre. The appropriate form is available at secondary schools and universities throughout Ontario (including Trent) or may be obtained by contacting the Centre directly:

Ontario Universities' Application Centre
170 Research Lane Guelph, Ontario N1G 5E2

Telephone: (519) 823-1940

Facsimile: (519) 823-5232

Web: www.ouac.on.ca

Applications are also available on-line at www.compass.ouac.on.ca

For entry in September 2004, the Ontario Universities' Application Centre fees are:

- \$80 for applications originating in Ontario (current Ontario secondary school)
- \$85 for applications originating in the rest of Canada (all other domestic applications)
- \$95 for applications originating from outside Canada.

Application for Part-Time Studies

Students applying for part-time studies should complete and return an application form supplied by Trent University. These forms are available at the Office of the Registrar and the Trent Information Office located at our Oshawa campus. Applications are available on-line at www.trentu.ca/jbc. To receive an application form by mail contact the Office of the Registrar or Julian Blackburn College:

Office of the Registrar

Blackburn Hall
Trent University
1600 West Bank Drive
Peterborough, Ontario
K9J 7B8
Telephone: (705) 748-1215
Fax: (705) 748-1629
E-mail: registrar@trentu.ca

Julian Blackburn College

Blackburn Hall
Trent University
1600 West Bank Drive
Peterborough, Ontario
K9J 7B8
Telephone: (705) 748-1229
Fax: (705) 748-1655
E-mail: jbc@trentu.ca

The 2004 application fee for part-time studies is \$35 and is payable directly to Trent University. See the *Part-time study opportunities* section of this Calendar for further information.

Application to Diploma Programs

Trent University offers diploma programs in Canadian Studies, Indigenous Environmental Studies, Native Management & Economic Development and Native Studies. Further information regarding application procedures, requirements and deadlines is included in the academic programs section of this Calendar.

Applications are made through the Ontario Universities Applications Centre. The forms may be obtained from the Office of the Registrar.

Application to Joint Programs with Fleming College

Trent University participates in several joint programs with Fleming College. Application for the Emphasis in Geographical Information Systems and the Special Concentration in Museum Studies must be made to both Fleming College and Trent University. Application for the Bachelor of Science in Nursing (B.Sc.N) must be made through the Ontario University Application Centre (OUAC). For further information regarding application procedures, see Joint Programs with Fleming College (p. 222).

Application Processing and Offers of Admission

Ontario secondary school applicants who will complete their high school diploma requirements in June and commence university studies in September will have their grades provided to Trent by the Application Centre. Applicants normally will be notified of their admission status beginning in mid-April for September 2004 admission.

All other applicants to Trent will be required to directly submit original transcripts and other documents necessary for the assessment of their application. Applicants will be notified of their admission status as soon as possible. Students are encouraged, therefore, to apply early and to make prompt arrangements for all necessary documents to be sent to Trent. The university may also request an interview to assist in making an admission decision.

Applicants whose primary language is not English must write a standardized English test (see English Language Requirements) and have the results submitted directly from the testing agency to Trent University.

Documentation

The following documents will be required for the processing of applications for admission:

- An official copy of the appropriate secondary school transcript.
- Official transcripts from all post-secondary institutions attended, whether or not the work was completed.
- Official reports of any standard tests written (e.g., TOEFL, CAEL, MELAB, IELTS, AP, SAT).

All documents must be official; in those instances where official documents in English are not available, certified translations will be required and should accompany the official document. Documents submitted with an application become the property of the University and will not be returned.

English Language Requirements

English is the normal language of instruction and communication at Trent University. Therefore, an applicant whose primary language is not English, or whose previous education has been conducted in another language, must demonstrate a command of English sufficient to meet

the demands of classroom instruction, written assignments and participation in tutorials and discussions.

The following factors will be taken into account in assessing an applicant's facility in the English language:

- The primary language of the applicant ordinarily spoken in the home and in the workplace.
 - The duration of residency in an environment in which English is the predominant language.
 - The duration of study and the language of instruction in secondary and post-secondary educational institutions.
 - The results obtained in any academic secondary and/or post-secondary courses in which a high standard of English is required.
 - The results of English language proficiency tests.
- Applicants who are determined by the University to have insufficient experience or skills in written and spoken English will be required to achieve a satisfactory score from one of the following English language testing services:
- TOEFL (Test of English as a Foreign Language). The minimum acceptable score for regular admission is 580/237 (but see gradual admission below).
 - CAEL (Carleton English Language Test). The minimum acceptable score is 60, with at least 60 in Writing Proficiency (but see gradual admission below).
 - MELAB (Michigan English Language Assessment Battery). The minimum acceptable score is 85 (but see gradual admission below).
 - IELTS (International English Language Testing Services). The minimum acceptable score is 6.5 (but see gradual admission below).
 - Applicants who have results from recognized Canadian university English language testing services may submit their results for consideration.

Please note that Trent University reserves the right to request English language proficiency results from any international applicant whose mother tongue is not English.

Applicants with TOEFL (or equivalent) scores of 500 to 580 are invited to apply for gradual admission through the English as a Second Language program offered by the Academic Skills Centre. Inquiries can be made through the Academic Skills Centre (e-mail: acdskills@trentu.ca) or the Trent International Program (e-mail: tip@trentu.ca).

Admission requirements

The admission requirements have been approved by University Senate. Authority for interpretation of the regulations rests with the Office of the Registrar. The University has the right to accept or reject any applicant.

The minimum admission requirements outlined are for general admission to the Faculty of Arts and Science at the University. Some programs have additional assessment criteria.

Completion of the minimum requirements does not guarantee admission to any course, program or department at the University. Enrolment is limited and the University will select the most qualified candidates for admission. Applicants are advised they will normally require a higher academic average than the published minimum.

Because of course enrolment restrictions and scheduling issues, admission to the Arts and Science program does not guarantee access to specific courses or major areas of study. The University reserves the right to offer part-time admission to applicants for full-time studies who are not among those selected for full-time admission. All enrolment limits are subject to revision.

Applicants who do not meet the published requirements for admission, but who are able to provide evidence that they stand a good chance of success at university, are encouraged to provide this information using the Supplementary application for admission.

Concurrent Trent/Grade 12 Course Registration

Students studying under the university stream curriculum in their final year of secondary school who have high marks may apply to complete course work at Trent concurrent with their completion of grade 12 courses. Students are required to have marks consistently in the A/A+ range, and must obtain written permission from both the Principal of their school and the chair of the appropriate department at Trent University.

Applicants are advised to contact the Assistant Registrar, Admissions in advance and should apply directly to the University, using the application for Admission to part-time studies.

Ontario Colleges of Applied Arts and Technology (CAAT)

Students attending a College of Applied Arts and Technology (CAAT) will be considered for admission upon completion of at least one term of full-time study in an acceptable diploma program with an overall average of 65% (2.5 gpa) or better. Enrolment is limited and the University will select the most qualified candidates for admission. Applicants are advised they will normally require a higher academic average than the published minimum.

Transfer credit to a maximum of 10 credits (the equivalent of two years of full-time study) may be granted. This will be based on the overall academic performance and background as determined by the appropriate academic department(s) at Trent. Normally, students who have successfully completed a two-year CAAT diploma may expect to receive 3 to 5 credits*. Students with a three-year CAAT diploma may expect to receive 5 to 8 credits depending on course content and marks.

*Please refer to Notes on Transfer Credit and Advanced Standing (p. 234)

Quebec Applicants from CEGEP

Applicants from CEGEP are required to present at least 12 academic courses representing at least four different academic disciplines.

A minimum overall average of 65% is required. The admission average is based on all academic courses completed for credit. Failed courses will be taken into consideration in determining admission. Enrolment is limited and the University will select the most qualified candidates for admission. Applicants are advised they will normally require a higher academic average than the published minimum.

Transfer credit to a maximum of 5 credits (equivalent to one year of full-time study) may be granted.

Quebec Grade 12

Applicants from a Quebec Grade 12 (college preparatory) program must present English 12 or Français 12 and Grade 12 courses representing four different subject areas.

A minimum overall average of 60% on six academic Grade 12 courses is required. Enrolment is limited and the University will select the most qualified candidates for admission. Applicants are advised they will normally require a higher academic average than the published minimum.

Advanced Placement (AP) Program

Advanced standing or transfer credit will be granted to students who complete certain Advanced Placement Programs with examination grades of three or better. Courses considered for transfer credit and the grades required are listed at the end of the *Admissions* section of this Calendar (p. 236).

International Baccalaureate (IB) program

All applicants who have completed the International Baccalaureate Diploma with a minimum overall score of 28 on the best six courses, including three courses at the Higher Level and three courses at the Subsidiary Level will be considered for admission. English at a Higher or Subsidiary Level is required. Advanced standing and transfer credit will be granted for higher level subjects passed with a grade of four or higher. The maximum credit that will be awarded from an IB Diploma is 5 credits (one year of full-time study). Please refer to Notes on Transfer Credit and Advanced Standing (p. 234).

Applicants from Outside Canada (International Students)

Trent University welcomes qualified students from outside Canada. Trent University's International Program offers exciting opportunities for students from many countries to live and study together in an international community. Further information can be obtained by contacting the International Program Office at (705) 748-1314 or referring to the International Educational Opportunities (p. 220) section of the Calendar. Admission information can be obtained by writing to the Office of the Registrar or visiting www.trentu.ca/tip.

United States Secondary School

- Applicants from an accredited U.S. secondary school are required to successfully complete the requirements for secondary school graduation in an academic program. At least four different subject areas at the matriculation level must be represented.
- A minimum overall average of B (normally 70% or better) in a recognized academic grade 12 program is required. Applicants will also normally be asked to provide SAT (1100) or ACT (24) scores for consideration. Advanced academic courses (e.g., International Baccalaureate, Advanced Placement) will be taken into consideration.

General Certificate of Education (GCE)

- Applicants presenting the General Certificate of Education (or equivalent) will be required to present a minimum of passes in at least five subjects, two at the advanced level with grades of C or better or passing grades in four subjects, three at the advanced level with grades of C or better. Please note that two advanced supplementary courses may be substituted for one advanced level course.
- Advanced level courses with grades of C or better will be considered for transfer credit.

Other Countries

For information regarding admission requirements for students from other countries, contact the Office of the Registrar.

Canadian Community Colleges, Institutes of Technology and Accredited Bible Colleges

Students applying for admission to the Faculty of Arts and Science from a community college situated in Canada will be considered for admission following at least one semester of study with a minimum 65% average (2.5 gpa). Admission consideration is based on a student's overall academic background including secondary school results. Enrolment is limited and the University will select the most qualified candidates for admission. Applicants are advised they will normally require a higher academic average than the published minimum.

Transfer credit to a maximum of 10 credits (two years of study) may be granted based on overall academic background and on the recommendations of the appropriate departments at Trent University. Normally, students who have successfully completed a two-year CAAT diploma may expect to receive 3 to 5 credits*. Students with a three-year CAAT diploma may expect to receive 5 to 8 credits depending on course content and marks.

Please refer to Notes on Transfer Credit and Advanced Standing (p. 234).

Admission from Another University

Students applying for admission to the Faculty of Arts and Science from an accredited university will be considered for admission following at least one semester of study with a 65% average (2.5 gpa). Admission consideration is based on a student's overall academic background including secondary school results. Enrolment is limited and the University will select the most qualified candidates for admission. Applicants are advised they will normally require a higher academic average than the published minimum.

Applicants holding a first degree may be admitted to undergraduate studies to undertake a second undergraduate degree. Applicants with first degrees from universities may be admitted with a minimum average of 65% (2.5 gpa). Ten credits (the equivalent of two years of full-time study) may be transferred toward a second degree. Applicants may not undertake a second degree in the same major as their first degree.

Mature Applicants

Applicants who are 21 years of age at the time classes commence, who have been out of a full-time educational institution for at least two years, and who are not eligible for admission consideration under the other published admission requirements may apply as mature applicants. Applicants are required to provide a letter and resumé outlining academic qualifications, experience, reasons for wanting to study at Trent and any further evidence in support of their likely academic success at university. Applicants may be asked to provide further information and/or make themselves available for an admission interview. Mature student applicants are normally considered for admission to the part-time studies program.

Canadian High School Admission Requirements

Students must successfully complete the requirements for secondary school graduation. A minimum average of 70% is required for consideration for admission to Trent University. A minimum grade of 60% must be obtained in English and four different subject areas must be represented in courses to be considered for admission. Scholarships are awarded with a minimum academic average of 80%.

	Alberta/ NWT Nunavut	British Columbia/ Yukon	Manitoba	New Brunswick	Newfoundland
General Admission Requirements (required for all programs)	English 30 and at least four additional 30 or 31 courses.	English 12 and at least three additional grade 12 courses.	English 40S and at least four additional level 40 courses including three at the 40S level.	English 121 or 122 (or French 121 or 122) and at least four additional academic courses at the 121 or 122 level.	Twelve credits at the 3000 level including Language 3101 and either Literature 3101 or 3202
Biochemistry and Molecular Biology	Biology 30 and Chemistry 30	Biology 12 and Chemistry 12	Biology 40S and Chemistry 40S	Biology 121 or 122, Chemistry 121 or 122	Biology 3201 and Chemistry 3202
Biology	Biology 30	Biology 12	Biology 40S	Biology 121	Biology 3201
Chemical Physics	Chemistry 30, Math 30, Pure Math 30 or Math 31	Chemistry 12, Math 12	Chemistry 40S, Math 40A or Math 40S	Chemistry 121 or 122, Math 120	Chemistry 3202, Math 3201 or 3203
Chemistry	Chemistry 30	Chemistry 12	Chemistry 40S	Chemistry 121 or 122	Chemistry 3202
Computing & Physics	Math 30, Pure Math 30 or Math 31	Math 12	Math 40A or Math 40S	Math 120	Math 3201 or 3203
Education	ALL PROVINCES – Students will fulfill requirements for a B.A. or B.Sc. and partial requirements for a B.Ed. while at Trent. Applicants are required to meet admission requirements for both the Education program and their chosen Faculty of Arts and Science program(s). A supplemental application (Personal Statement of Experience or PSE) is required and can be found on-line at www.trentu.ca/education/concurrent/prforms.htm A minimum average of 75% on courses considered for admission is required.				
Environmental Chemistry	Chemistry 30	Chemistry 12	Chemistry 40	Chemistry 121 or 122	Chemistry 3202
Forensic Science	Biology 30, Chemistry 30, Math 30, Pure Math 30 or Math 31	Biology 12, Chemistry 12, Math 12	Biology 40S, Chemistry 40S, Math 40A or 40S	Biology 121, Chemistry 121 or 122, Math 120	Biology 3201, Chemistry 3202, Math 3201 or 3203
Mathematics	Math 30, Pure Math 30 or Math 31	Math 12	Math 40A or Math 40S	Math 120	Math 3201 or 3203
Nursing	Biology 30, Chemistry 30, Math 30, Pure Math 30 or Math 31	Biology 12, Chemistry 12, Math 12	Biology 40S, Chemistry 40S, Math 40A or 40S	Biology 121, Chemistry 121 or 122, Math 120	Biology 3201, Chemistry 3202, Math 3201 or 3203
Physics	Math 30, Pure Math 30 or Math 31	Math 12	Math 40A or Math 40S	Math 120	Math 3201 or 3203

Notes

- Students applying to the Nursing B.Sc. program should be aware that there are non-academic requirements that must be completed before registration. Please see page 173 for details.
- Students choosing a Bachelor of Science program should note that fourteen science credits (including one in Mathematics) are required for the Honours degree, eleven (including one in Mathematics) for the General degree.

Nova Scotia	Ontario	Prince Edward Island	Quebec	Saskatchewan
English 12 and at least four additional GR 12 courses.	ENG4U and five additional U or M courses.	English 621 or English 611 and at least four additional 600 level academic subjects.	CEGEP – completion of at least 12 academic courses. Grade 12 – six academic (university preparation level) subjects including 12 English.	English A30 and B30 and at least 4 additional level 30 courses.
Biology 12 and Chemistry 12	SBI4U and SCH4U	Biology 611 or 621 and Chemistry 611 or 621	Biology 301 and 401 and Chemistry 101 and 201	Biology 30 and Chemistry 30
Biology 12	SBI4U	Biology 611 or 621	Biology 301 and 401	Biology 30
Chemistry 12, Math 12	SCH4U and one of MCB4U, MGA4U	Chemistry 611 or 621, Math 611 or 621	Chemistry 101 and 201, Math (2 courses)	Chemistry 30, Math 30
Chemistry 12	SCH4U	Chemistry 611 or 621	Chemistry 101 and 201	Chemistry 30
Math 12	MCB4U, MGA4U	Math 611 or 621	Math, 2 courses	Math 30
ALL PROVINCES – Students will fulfill requirements for a B.A. or B.Sc. and partial requirements for a B.Ed. while at Trent. Applicants are required to meet admission requirements for both the Education program and their chosen Faculty of Arts and Science program(s). A supplemental application (Personal Statement of Experience or PSE) is required and can be found on-line at www.trentu.ca/education/concurrent/prforms.htm. A minimum average of 75% on courses considered for admission is required.				
Chemistry 12	SCH4U	Chemistry 611 or 621	Chemistry 101 and 201	Chemistry 30
Biology 12, Chemistry 12, Math 12	SBI4U, SCH4U and OAC or U Math	Biology 611 or 621, Chemistry 611 or 621, Math 611 or 621	Biology 301 and 401, Chemistry 301 and 401, Math (2 courses)	Biology 30, Chemistry 30, MathA30, B30 or C30
Math 12	MCB4U; MGA4U recommended	Math 611 or 621	Math, 2 courses	Math 30
Biology 12, Chemistry 12, Math 12	SBI4U, SCH4U and OAC or U Math	Biology 611 or 621, Chemistry 611 or 621, Math 611 or 621	Biology 301 and 401, Chemistry 301 and 401, Math (2 courses)	Biology 30, Chemistry 30, MathA30, B30 or C30
Math 12	One of MCB4U, MGA4U	Math 611 or 621	Math, 2 courses	Math 30

Special Entry

Applicants who do not meet the University's published admission requirements, who nevertheless can produce significant evidence of a likelihood of success at university are invited to apply for special entry. All applicants for special entry will be required to provide a letter outlining academic qualifications, experience and evidence in support of their likely success at university. Normally, applicants for special entry will be required to submit letters of reference and will be expected to make themselves available for an admission interview. Individuals interested in applying for special entry are advised to contact Admissions in advance of making application.

Special Students and Letters of Permission

Applicants who wish to enroll in courses at Trent for interest or to obtain degree credit for transfer to another university may apply as Special students. Special students are required to follow the usual admission procedures and are expected to meet the same admission requirements as degree students at Trent University. Those applying on a Letter of Permission must also submit an approved Letter of Permission from their home institution. Special Students are not evaluated for transfer credit.

General Policy on the Transfer of Course Credits from Other Ontario Universities

Trent University subscribes to the following general policy on the transfer of course credits, as adopted by the Council of Ontario Universities:

Acceptance of transfer credits from accredited universities shall be based on the recognition that, while learning experiences may differ in a variety of ways, their substance may be essentially equivalent in terms of their content and rigour. Insofar as possible, acceptance of transfer should allow for the maximum recognition of previous learning experience in university-level courses. Subject to degree, grade and program requirements, any course offered for credit by one university shall be accepted for credit by another Ontario university when there is an essential equivalency in course content.

Notes on Transfer Credit and Advanced Standing

Transfer credit is designated in three different ways:

1. Assigned credit is used when there is a Trent University equivalent.
2. Unassigned credit in a subject area is used for courses without Trent University equivalent, but which are acceptable to a department as fulfilling subject requirements toward a degree in that department. Individual departments may restrict the amount of unassigned credit that may be counted toward a degree in that department.
3. General elective credit is used for courses which are judged to be transferable but do not fulfil specific departmental requirements. General elective credits are expressed in terms of arts elective or science elective courses.

Advanced Standing is placement to a certain level in a subject area granted to students on admission. The department concerned examines the applicant's previous work or asks him/her to take a placement test, and then places the applicant at a certain level in the sequence of courses in the department. Prerequisite status in a department means that the Trent prerequisite for a course will be waived to enable the student to go on to more advanced work in that discipline.

The total number of non-Trent credits may not exceed 10.

A grade of "p" (pass) is assigned to all transfer credits.

Changes to Transfer Credits

Any questions regarding transfer credits must be forwarded to the Office of the Registrar in writing by the end of the third week of classes in the Fall term. Transfer credits are determined in accordance with the policies and regulations effective at the time the admission decision is made. Subsequent changes to policies and regulations will not affect a previously determined transfer credit assessment. Once transfer credits have been awarded and applied to your Trent academic record, they cannot be removed from your record.

For information on transfer credit for General Certificate of Education "A" levels and International Baccalaureate Higher Levels, please see the Admission requirements section. Advanced placement course credits are listed on page 236.

Applicants for Re-admission

Students who have studied at Trent but have not completed a course at Trent during the previous 12-month period *must apply for re-admission*. The deadlines for submitting an application for re-admission are the same as those for admission.

The minimum requirements for re-admission to full-time studies include a current academic status of "eligible to proceed" and a cumulative average of 65% or higher over three or more completed credits. Applicants who do not meet these requirements will be considered for re-admission to part-time studies. Applicants whose previous academic standing is probation may be limited to one course.

Applicants who have completed fewer than three credits will be considered for re-admission to full-time studies on an individual basis based upon the same criteria used for new applicants to Trent University.

Applicants for re-admission, who have previously left the University on an academic penalty are required to provide a letter with their application indicating the grounds on which re-admission is requested. In some instances, the Committee on Admissions and Scholarships may require the applicant to be present for an interview.

Students who have graduated with a General (three-year) degree and wish to pursue an Honours degree must apply for re-admission to the University. Enrolment limits may determine the number of available spaces. Students who are re-admitted and meet the requirements for continuation in an Honours program will be eligible to enter the fourth quarter to pursue a single- or joint-major program provided at least one of the majors for their Honours program is either the same as the single-major or one of the joint-majors from the General degree.

Students who have graduated with a General (three-year) degree and are readmitted to pursue a General or Honours degree in a single- or joint-major which does not incorporate the single, or at least one of the joint-majors from the previous degree, will be deemed to be pursuing a second undergraduate degree and should refer to "Second Degree" in the Admissions section of the Calendar.

Possession of the minimum requirements does not guarantee re-admission. The 2004 fee for application for re-admission is \$25 and is payable directly to Trent University.

Application for a Second Trent Degree

Students who hold a Trent degree wishing to pursue a second B.A. or B.Sc. must formally apply for re-admission to the second degree program.

The minimum requirements for admission to a second Trent degree include successful completion of the first degree with 65% or better. As enrolment may be limited, applicants are advised they may require a higher academic average in order to be admitted.

Ten credits (the equivalent of two years of full-time study) may be transferred for credit towards a second Trent degree.

Applicants may not undertake a second degree in the same major as their first degree.

Protection of Privacy

Trent University receives and maintains information used for the purposes of admission, registration and other fundamental activities related to being a member of the Trent University community and to attending a publicly funded post-secondary institution in the Province of Ontario. The application information provided by the applicant or student and any other information placed into the student file will be protected and used in compliance with Trent University's *Policy on Privacy Protection and Freedom of Information*.

Retention of Documents

The documents which support an application for admission will be retained for 12 months following the session to which application was made. Then, application forms, transcripts and other materials related to an application will be destroyed.

The University's Right to Deny Admission

The University reserves the right to deny admission to any candidate. The University also reserves the right to refuse re-admission to candidates who have not achieved an acceptable academic standing as determined annually by the Committee on Admissions and Scholarships.

Advanced Placement Courses

AP Course Name	Minimum Grade	Trent Equivalency	Credit Value
Art History	3	general credit (year1)	1.0
Art Studio (Drawing)		general credit (year1)	1.0
Art Studio (General)		general credit (year1)	1.0
Biology	3	general credit (year 1)	1.0
	4	Biology 102H and 103H	1.0
Calculus AB	3	general credit (year 1)	1.0
Calculus BC	3	Mathematics 110	1.0
Chemistry	3	general credit (year 1)	1.0
	4	Chemistry 100	1.0
Comparative Gov. & Politics	3	Political Studies Year 1 unassigned	0.5
Computer Science A	3	general credit (year 1)	0.5
	4	Computer Science 102H	0.5
Computer Science AB	3	general credit (year 1)	1.0
	4	Computer Science 102H and 104H	1.0
Macroeconomics	3	general credit (year 1)	0.5
	4	Economics 102H	0.5
Microeconomics	3	general credit (year 1)	0.5
	4	Economics 101H	0.5
English Language*	3	general credit (year 1)	1.0
English Literature*	3	general credit (year 1)	1.0
French Language	3	individual assessment	1.0
French Literature	3	individual assessment	1.0
German	3	German 105	1.0
History – American	3	general credit (year 1)	1.0
History – Europe	3	general credit (year 1)	1.0
	5	History 120	1.0
Latin*	3	Latin 100	1.0
Music Literature	3	general credit (year 1)	1.0
Music Theory	3	general credit (year 1)	1.0
Physics B*	3	general credit (year 1)	1.0
Physics C – Electricity*	3	general credit (year 1)	0.5
Physics C – Mechanics	3	general credit (year 1)	0.5
Psychology	3	general credit (year 1)	1.0
	4	Psychology 101	1.0
Spanish Language	3	individual assessment	1.0
Spanish Literature	3	individual assessment	1.0
U.S. Government	3	Political Studies year 1 unassigned	0.5

Notes

- * indicates that the course is presently under review for possible assigned course equivalency.
- “individual assessment” – students will receive appropriate courses equivalency following a placement interview with the chair of the department.
- 1.0 credit equals one full course. 0.5 credit equals one half course.

Registration

Definition of Full-Time and Part-Time Course Load

Any student taking 3.5 credits or more in the Fall/Winter session will be considered a full-time student. The maximum number of credits a full-time student may take in the Fall/Winter session *without overload approval is five*.

The maximum number of credits a part-time student may earn in the Fall/Winter session is three. The maximum number of credits a part-time student may earn in either the Fall session or the Winter session is 1.5 (or equivalent).

See p. 12 for more information on course credits.

Fall/Winter Session Registration

Students New to University Studies

The Registration process for students new to university studies is currently under review. Further information will be available in June 2004. Introductory Seminar Week (the week before the start of classes in September) is designed to provide students with an introduction to student life at Trent, and an opportunity to explore and gain a clear understanding of their academic options. New students arrive at their affiliated colleges on the first Monday of September (Labour Day), and on Tuesday meet with their academic advisers to discuss program options and registration procedures. From Tuesday through Thursday students may attend lectures and information sessions which are designed to help the students choose their courses. During this time students may also resolve outstanding fee issues and acquire their photo ID student cards. On Thursday students meet again with their academic adviser to review their course selections. A \$100 late fee is applied to students' accounts for registration after September 17.

Transfer and Re-admit Students

Students who have accepted their offer of admission will receive registration information which they should complete as soon as possible but no later than July 31.

First session fees must be paid, or appropriate arrangements made, by the September deadline (see the University Diary for details).

Students arrive at their affiliated college on the Sunday before the beginning of classes. Students are required to finalize their course selection and submit any changes by September 24. A \$100 late fee is applied to students' accounts for registration after September 17. A late fee of \$25 per course will be applied for course changes made after September 24.

Transfer students are invited to attend Introductory Seminar Week.

New Part-time Students

Students new to university study, as well as transfer and readmit students, register on the part-time registration form, which is available from Julian Blackburn College, the University Centre at Durham, the Office of the Registrar, the part-time studies Fall/Winter brochure and on the Julian Blackburn College website at: www.trentu.ca/jbc/application.html. These forms can be submitted at the time of application.

A \$50 late registration charge is applied to students' accounts for registration after September 17.

Students are required to finalize their course selection and submit any changes by September 24. A late fee of \$25 per course will be applied for course changes made after this deadline.

Continuing Students (full-time and part-time)

Continuing students are required to register in April for the following Fall/Winter session by the required submission date. Students also must register in all half-courses, whether offered in the Fall or Winter sessions, by this date. The minimum late fee for submitting a registration form after the submission date is \$50 for part-time students and \$100 for full-time students.

Departments will review registration requests in May after marks have been processed. Students should check My Trent! starting in June for their registration status and may make changes.

Official registration is complete when the student has registered and forwarded the appropriate fee payment (or evidence of external financial support) to Financial Services. Failure to complete this requirement by the University's fee deadline will result in cancellation of all registration in courses and college residence assignments.

Students who have had their registration cancelled and wish to continue studies must contact the Office of the Registrar for details on how to proceed with registration. Payment of fees or deposits related to tuition or residence does not excuse a student from compliance with deadlines or other procedures related to registration.

Refer to the *Registration Notes for Continuing Students and Academic Advisers* and also to the Fees section of the Calendar under "Ineligibility to Return for Financial Reasons" for further details about the registration process for continuing students.

Summer Session Registration

The Summer session is divided into three terms: a 12-week term from early May to late July, in which courses are taught twice a week, an eight-week term from early May to late June, in which courses are taught three times a week, and a six-week term from early July to mid-August, in which courses are taught four times a week. Summer session courses are offered in both Peterborough and Oshawa, and details are available in the Part-time Studies Summer Session Brochure, which is published annually in February.

The University also offers field schools in archaeology and field courses in Biology and Geography. Details of these courses are available from the departments concerned. Registration forms for new or readmit students are available from the Julian Blackburn College Office or the Office of the Registrar, both in Blackburn Hall on the Symons Campus or the University Centre at Durham, or can be found in the part-time studies session brochure. Continuing students can register using My Trent! Please refer to the *University Diary* for application and registration deadlines.

Changing from Part-time to Full-time Studies

Continuing part-time students who wish to transfer to full-time status for the next Fall/Winter session must submit a request by the required date. The Office of the Registrar considers all applications following review of final marks in May. Notifications are mailed to students in mid-June. The minimum requirements to transfer to full-time studies include a current academic status of "good standing" and a cumulative average of 65% or higher over three or more successfully completed credits. Students placed on probation will not be considered for admission or re-admission to the full-time program.

Possession of the minimum requirements does not guarantee admission to full-time studies.

Course Overload

Course overload is defined as enrolment in more than five credits in the Fall/Winter session or enrolment in more than 2.5 credits (or equivalent) during the Fall session or the Winter session.

Students require approval for course overload. Full-time students with at least a 70% average over a minimum of the five most recent credits will require the signature of their Senior Tutor on the *Course Drop/Add and Change of Major* form. Students whose current average is less than 70% must petition the Committee on Undergraduate Standings & Petitions, through their senior tutor, for approval of course overload. Overload approvals cannot be granted at April registration.

Changes, Withdrawals, Refunds

Once a student has registered in a course, a grade will be assigned for that course unless the student withdraws from the course before the deadline for withdrawal. The deadlines for dropping, adding and withdrawal from courses are listed in the University Diary near the front of this Calendar. Students may be de-registered from courses where the prerequisite standing has not been achieved.

Changes

Students wishing to drop or add courses must do so before the drop and add deadline. Students who are unable to register using My Trent!, must obtain approval from the department and submit a Course Drop/Add form to the Office of the Registrar by the due date.

Withdrawal from the University

Full-time students affiliated with a residential college must obtain an official withdrawal form from their college head and complete the form at their college. Resident students will not be considered to be withdrawn from the University until their residence keys and Trent student card have been returned to the Office of Student Affairs.

Students who are affiliated with Julian Blackburn College must obtain an official withdrawal form from their college.

Students who have questions about the procedures and regulatory implications of withdrawal from the University may contact the Office of the Registrar.

Refunds

Please refer to the Fees section of this Calendar (p. 248) for refund policy and schedule.

Late Withdrawal from Courses and from the University

"Late withdrawal" is withdrawal from courses, or from the University, after the applicable deadline as listed in the University Diary, printed near the front of this Calendar.

Students must petition for late withdrawal through the Senior Tutor of their college. Petitions are considered by the Committee on Undergraduate Standings & Petitions (CUSP).

Students Required to Reduce Course Load to Part-time Studies

Students who have dropped to a part-time course load, and whose status is probationary at the completion of the Fall/Winter session, will be required to proceed in the part-time studies program.

Letters of Permission

Trent students who wish to take courses at other universities for credit in their Trent program must first apply for and be granted a Letter of Permission.

Application for a Letter of Permission

Letters of Permission are granted under the authority of the Committee on Undergraduate Standings & Petitions, and applications are made through the Office of the Registrar. Applications for an International Letter of Permission should be made through the International Program. The application must show that departmental approvals and equivalency assessments have been obtained for courses within a student's major. (Departmental approval may also be required for courses outside of a student's major.) Calendar course descriptions for all courses being requested must also accompany the application.

For the Fall/Winter session, applications for Letters of Permission must be received no later than August 9. For the Summer session, applications must be received no later than two weeks after Spring Convocation. A week to 10 days must be allowed for processing, and a \$30 fee is charged when the application is submitted to the Office of the Registrar. Incomplete applications will be returned to the student unprocessed.

Restrictions

Students taking Summer courses at another university on a Letter of Permission may not attempt more than two credits (or equivalent), and students on probation may take only one course at a time on a Letter of Permission.

No more than five credits may be completed on a Letter of Permission. For transfer students this number may be lower, depending on how many transfer credits they have received.

The total number of non-Trent credits may not exceed 10. It should also be noted that five of the last seven credits obtained by a candidate for a degree must be completed at Trent.

Study at foreign universities

Students wishing to complete only 1-2 credits (summer or academic year) at a foreign university should apply through the Office of the Registrar.

Students wishing to take a term or full year of study at a foreign university must apply through the Trent International Program for an International Letter of Permission and have their plans for study approved by the appropriate academic departments. A number of departments and programs encourage study abroad, and formal arrangements exist with several foreign universities. A year studying abroad will normally constitute the third year of an Honours program. The deadline for the International Letter of Permission application is February 2.

For more detailed information about study at foreign universities, see International Educational Opportunities (p. 220).

Fees

Payment of Fees for the Fall/Winter Session

All fees, including fees for registered courses starting in the second session are due on or before the start of classes. (The due dates are under review for 2004-2005 and will be communicated to students once the dates have been approved.) Students may pay fees in full or in two instalments. The first instalment of approximately 65% is due before the start of class and the balance of all fees is due no later than January 19, 2005. If a student decides to pay in two instalments, a \$60 instalment fee will be charged and must be included with the payment of the first instalment. A \$75 late payment fee will be levied if the second instalment is not paid by the due date. A \$300 non-refundable tuition deposit is due June 23, 2004 for full-time students (date under review for OAC and new international students).

Continuing students who have unpaid fees or library fines from a previous academic session are required to include full payment of these items with their fee payment at the beginning of their session in order to be officially registered.

In addition, all outstanding accounts such as departmental charges for laboratory fees, field trips, etc. are also to be included in the January 19, 2005, payment.

Using the University remittance form, payment may be made at most banks/ ATMs/financial institutions in Canada with cash or cheque. Trent University accepts payment by credit card (Visa, MasterCard, American Express), cheque or money order. Mail to, or pay in person by debit card or cash at: Student Financial Services, Blackburn Hall, Trent University, Peterborough, Ontario K9J 7B8. Cheques or other remittances (please do not mail cash) should be made payable to Trent University. Registration will not be considered complete if the University does not receive the fee payment with the Fee Invoice Form by the required University deadlines.

There is a \$40 fee for cheques which are returned by the bank for NSF or other reasons. If a cheque which accompanies the first instalment of fees is returned by the bank the student's official registration is automatically canceled. In order to be eligible to re-register, the invalid cheque must be replaced with a certified cheque, money order or credit card payment immediately.

The University reserves the right to require a student to pay by certified cheque.

Students who receive financial assistance from OSAP, scholarships, bursaries or any other source which is not available by the date fees are due may request a payment deferment. Students must still submit a completed Fee Invoice Form. Students are required to make arrangements for a fee payment deferment with the Financial Aid Office in the Office of the Registrar in Blackburn Hall before the date fees are due. Deferments will normally only be granted to students who can show proof of financial assistance which can be confirmed by the University. There is a \$35 fee for a deferment (under review) which is charged to the students account.

The University will not consider registration to be complete until all financial requirements have been met by the student.

Domestic Tuition Fees

Full-Time Peterborough

Students admitted to full-time studies in Peterborough (a course load of 3.5 or more credits with 50% or more of these credits in Peterborough) are required to pay full tuition fees. In 2003-2004 this fee was \$4184.00.

Full-Time Oshawa

If your program includes 3.5 or more credits with 50% or more of these credits in Oshawa, you are considered to be a full-time Oshawa student and will pay tuition on a per course basis.

Part-Time Peterborough and Oshawa

Students admitted to part-time studies (a course load of 3.0 full courses or less) pay one-fifth of the full-time tuition fee for each full course registered. In 2003-2004 this fee was \$837.00 per full course (equivalent of three credits), \$418.50 per half course, plus any applicable ancillary or levy charges.

For particular courses students will be expected to pay for field trips and course materials. Students are advised of these fees by their instructor during classes.

A tax certificate for fees assessed during the calendar year and eligible for the education deduction will be provided in February.

Ancillary Fees – Full-time Peterborough Students

Full-time Peterborough students admitted to full-time studies will normally be affiliated with one of the five residential colleges for full-time students, and will be required to pay the ancillary fees for full-time students. These include fees for athletics, health services, transportation (bus pass and some parking), college activities and a convocation fee.

New students also pay an Introductory Seminar Week fee.

In 2003-2004 these fees were: *(subject to change in 2004-2005)*

Athletics	\$ 134.29
Health Services	33.00
Transportation	177.84
College Activities	220.50
Convocation	13.25
Introductory Seminar Week	45.00

Part-time students who are admitted to full-time studies normally pay the ancillary fees for full-time students, even if they remain affiliated with Julian Blackburn College, the University's college for part-time students.

Students taking a full-time course load of 3.5 or more credits with 50% or more of these credits in Oshawa* pay part-time ancillary fees.

Ancillary Fees – Part-time and Off-campus Students

All students admitted to part-time studies will normally be affiliated with Julian Blackburn College, the University's non-residential college. This includes continuing full-time students who decide to register part-time.

Part-time students registered in courses offered in Peterborough pay ancillary fees for part-time Peterborough campus students. These include fees for athletics, health services, college activities and a convocation fee. In 2003-2004 these fees were (subject to change in 2004-2005):

College Activities	\$ 33.46	per full course
Student Services	49.83	per full course
Part-time Student Card	5.00	

Part-time student bus passes are available at an additional cost of \$177.84 (subject to change) in September and \$90.00 (subject to change) in January.

Students registered in courses at the University Centre at Durham (UCD) pay tuition and program fees for athletics, personal counselling, and the student centre. In 2003-2004, the program fees were: (subject to change in 2004-2005)

College Activities	\$ 33.46	per full course
Student Services	30.54	per full course

Part-time students registered in courses outside Peterborough are not required to pay ancillary fees for athletics and health services. However, Oshawa-based part-time students may join the Durham College Athletic Centre for \$20 for the academic year.

Residence Fees (*under review*)

Residence accommodation and meal plans are available to full time students.

In 2003-2004, single room accommodation ranged from \$6126 to \$7459 and double room accommodation from \$5616 to \$6220 (see Residence Fee table.) Rates include a furnished room, meal plan, telephone installation* and telephone monthly line rental* beginning in September and ending in April. Move-in and move-out deadlines are announced annually.

Applications for upper year students are released in January. Students assigned residence for Fall must submit a post dated cheque dated May 28, 2004 in the amount of \$500. In addition to the application and the deposit, continuing students must be considered to have good academic, college and financial standing with the University for their application to be accepted.

New full-time applicants to the University must apply for residence on Trent's Application for College Residence form. A prospective student's application for residence is not considered complete if any one of the following items is not submitted: a completed residence application form, a non-refundable residence application fee of \$20, and acceptance of Trent University's offer of admission.

*Telephone charges are not included at Peter Gzowski College @ Argyle Street.

Meal Plan Fees

The University's room and meal plan fees include the cost of a full meal plan for the academic year commencing the Tuesday after Labour Day.

There are two types of meal plans: declining balance (Flex Dollars) and traditional board buffet. Each meal plan has an expiry date.

The colleges also encourage non-resident students to eat their meals in the college dining halls. Non-residential, declining balance meal plans may be purchased for meals and snacks at the University. The minimum flex card amount is \$50 and you can add additional dollars in increments of \$25 at anytime. All food services locations are flex card friendly. Cards are purchased from the Food Services Office located at Otonabee College.

Student Association and Organization fees

Student association and organization fees are determined by student referenda which are held under the supervision of the Trent Central Student Association for full-time students and the Julian Blackburn College Students' Association for part-time students.

All full-time and part-time students are required to pay student association and organization fees. These fees are not refundable unless specifically noted. For full-time students these fees in 2003-2004 included the following (subject to change in 2004-2005):

Levies

Arthur	\$	9.50
Canadian Federation of Students		5.84
Canadian Federation of Students – Ontario		7.00
College Cabinet/Council		12.75
College Student Pubs		2.00
Trent Pubs		3.00*
Emergency First Response Team		3.50 (1.50)*
International Scholarship Fund		5.00
Kawartha World Issues Centre		4.00*
OPIRG		9.00*
OXFAM		3.00*
Sexual Violence Support		3.00
Shinerama		0.50
TCSA Dental Plan		112.00
Theatre Trent		3.00
Trent Annual		18.00
Trent Central Student Association		23.20
Trent Central Student Association Club Fund		4.00
Trent Child Care		2.00
Trent Film Society		3.00
Trent International Students Association		1.50
Trent Music Society		2.50
Trent Nature Areas		2.00*

Trent Radio	15.00
Trent Student Health Plan	127.00
Trent Students for Literacy	0.50*
Women's Centre	2.75
WUSC	3.00

\$ 419.04

*These organizations provide refunds upon request. Returning students who have opted out or new/transfer students intending to opt out of the TCSA Health Plan and/or Dental Plan must still submit payment of these fees to Trent University. Refunds will be issued through TCSA after registration status has been confirmed.

Part-time students pay a Student Association Fee included in the student services charge.

Trent/Fleming Nursing Program Fees 2003-2004

(charges are subject to change in 2004-2005)

Ancillary Fees

	Trent/Fleming
College fee	\$ 220.50
Student health	16.50
Athletics	67.15
Transportation	177.94
Convocation	13.25
Information Technology	104.00
Student Support Service	118.00
CNSA Membership	5.00
Alumni	18.00
Total	740.24
ID Card for Placements (new or transfer)	8.00

Total Ancillary Fees

\$ 748.24

Levies

Trent Music Society	\$ 1.25
International Scholarship Fund	2.50
Emergency First Response Team	1.75
Trent Student for Literacy	1.00
Trent Annual	9.00
W.U.S.C.	1.50
TCSA health plan	127.00
Theatre Trent	1.50
Trent Radio	7.50
Women's Centre	1.38
International Student Association	0.75
Trent nature areas	1.00
Sexual violence support	1.50
Seasoned Spoon Café	1.00
Shinerama	0.25
TCSA dental	112.00
OPIRG	4.50
OXFAM	1.50
College pubs	1.00
TCSA	11.60
TCSA club funding	2.00
College Cabinet/Council	6.38
Canadian Federation of Students	7.00
Canadian Federation/Ontario	5.84
Arthur	4.75
Trent Film Society	1.50

KWIC	2.00
Trent pubs	1.50
Trent Queer Collective	1.00
Student Facility	11.00
Trent Child Care	1.00
Absynthe Newspaper	2.00
Fleming College Student Association Activity	37.00
Fleming College Athletics	27.00
Fleming College Building Fund	25.00
Total Levies	424.45

Total Ancillary Fees and Levies **\$ 1164.69**

ID Card for New Student Placements only **8.00**

Health Insurance for International Students

Effective July 1, 1994 the Ontario Government ruled that international students and their dependents who are temporary residents of Ontario will no longer be eligible for coverage under the Ontario Health Insurance Plan (OHIP). Therefore, international students are required to purchase basic health insurance coverage to register for their courses at Trent University. Private coverage with Liberty Mutual has been arranged through a joint initiative of the Council of Ontario Universities and the universities. A compulsory health insurance fee, *payable in full with the fee payment*, must be paid to Trent University by all international students to provide this health insurance coverage. In 2003-2004 the health insurance fee was \$612.47 for single coverage. Coverage is also available for dependents. Students will not be officially registered without this full payment of health insurance. Students are required to complete a health insurance application form. The insurance will not be valid until the student has completed the form, and, the form has been processed by the Trent International Program (TIP) office in September. Blank forms are available at the TIP office in Champlain College.

Auditing Courses (subject to change)

Persons under the age of 65 who wish to audit courses will pay 50% of the regular tuition fee for regular credit courses. Auditing students do not pay compulsory ancillary fees.

Senior Citizens (subject to change)

All persons of 65 years and older pay full fees. Seniors in financial need will be able to apply for a student bursary with the Student Financial Aid Office.

Persons of 65 years and older who wish to audit courses only pay an administrative fee \$170.34 (2003-2004) per full course (subject to change) and pay no compulsory ancillary fees.

Other Fees (subject to change)

Additional fees at 2003-2004 levels (subject to change in 2004-2005) (GST will be added where applicable):

Academic appeals	\$ 25.00
Additional Calendar copies	5.00
Additional permit/replacement	10.00
Application for part-time students	35.00
Verification of registration	5.00
Assessment letter	5.00
Full Time Processing withdrawal from the University before start of classes: (deposit forfeitures)	300.00
Part Time Processing withdrawal from the University before start of classes: (deposit forfeitures)	100.00
Late course additions – per course	25.00
Application for re-admission	25.00
Application to Trent by graduate students	35.00
Athletics-locker rental: Full-time	38.89
Part-time	28.19
Degree replacement	40.00
Document lamination (per page)	2.00
Fee deferment application	35.00
Fee payment instalment fee	60.00

Special additional fees may be assessed directly by some departments for courses involving laboratory or field work, or for course material. Some of these fees may be refundable. Additional fees are also charged to students who participate in one of the University's Year Abroad programs. Academic departments will provide detailed information on request.

Trent University and Fleming College offer a number of programs on a joint basis. The fee structure for the courses taken under these joint programs at Trent University may differ slightly from the regular fee structure. The University's Student Financial Services Office will be able to provide more information about the fees charged by the University. See also Joint Programs with Fleming College (p. 222).

Textbooks

The cost of books and materials varies according to individual course requirements, with those for science courses tending to be more expensive than those for arts courses. Students should be prepared to spend approximately \$130 per course. Both new and used textbooks are available from the Trent University Bookstore. The Bookstore accepts personal cheques, MasterCard and Visa. The Bookstore provides limited refunds of textbook purchases. Students are expected to familiarize themselves with the Bookstore's text book refund policies.

Withdrawal from the University and Refund of Fees

Refunds are provided for all tuition and compulsory ancillary fees except those listed under Student Government and Organization Fees. Most of the other fees listed are not refundable unless specifically indicated otherwise.

Full-time students who wish to withdraw from Trent University must visit their college office to complete an official Withdrawal Form, obtain the signature of the college head and return the student identification card (bus pass and/or meal card). The college will forward the completed Withdrawal Form and student card to the Office of the Registrar for the official recording and dating of the withdrawal for academic and refund purposes. The date the form has been signed by the college official serves as the effective date for calculation by the Finance Office of the proportionate refund of fees. The Finance Office will not process a refund until it has received the student's identification card and Withdrawal Form. Full-time students who withdraw from courses but retain a course load of at least 3.5 courses, are still considered full-time and do not receive a refund for the withdrawn courses.

Part-time students who wish to withdraw are required to notify Office of the Registrar in writing. The date the student's notice is received by the Office of the Registrar becomes the effective date of course withdrawal and the date used by the Finance Office to calculate the fee refund. Fee refunds for withdrawals before the start of classes are subject to a tuition deposit forfeiture of \$100 for part-time and \$300 for full time.

A refund table has been provided at the end of the Fee section of this Calendar which outlines the percentages at certain dates during the academic year at which the fee refunds are calculated for full withdrawal from the University or for a course withdrawal by a part-time student. The actual amount of refund will of course depend on the amount of fees actually paid. The table assumes that all fees are paid. Student Government and Organization Fees are not refundable by the University.

Students Changing from Full-time to Part-time and Refund of Fees

Students changing from full-time to part-time (i.e. less than 3.5 courses) will be provided a prorated refund in tuition fees based on the date a completed Change of Course Registration Form is received by the Office of the Registrar. There will be no proportionate refund of any of the compulsory ancillary fees or student association/ organization fees.

Unpaid Student Accounts

Students who wish to pay their fees in two instalments/or have not paid tuition fees in full by August 23, 2004 will be assessed a \$60 instalment fee when the first instalment is due. Students who fail to pay the second instalment including all other accounts by January 19, 2005 will be assessed a \$75 late payment fee.

Unpaid accounts of students who are no longer registered with the University will be placed with a collection agency and the students will be unable to register for any further courses until the outstanding balance has been paid. Any students owing from previous years who were able to register and have not yet set up some payment agreement with Trent University will be de-registered without notice.

Ineligibility to Return to the University for Financial Reasons

For all students who have not paid their University account in full by February 28, the Office of the Registrar will change their academic status to Financially Ineligible to register early. These students will be excluded from Early Registration in April and will be required to apply for re-admission to the University. Students are still required to complete the academic year, including the writing of any final examination; however, transcripts or grade reports will not be released until the financial obligations have been fully settled.

Confidentiality of Student Fee Information

All information regarding student fees is treated as confidential and will normally only be released to individual students. In cases where sponsoring government and private agencies and organizations or individuals are paying fees on the student's behalf, the student may wish to waive the right of privacy and allow the University to release information about the status of his/her fees to avoid any interruption in the payment of fees. To ensure that the necessary fee information is available to sponsoring agencies, etc., students must sign the release waiver on the Fee Invoice Form which is to accompany the payment of fees.

SCHEDULE OF FEES

To assist students in their financial planning, a fee schedule, based on 2003-2004 rates, is included. The actual fees for the 2004-2005 academic year will not be available until March or April 2004 after they have been approved by the University's Board of Governors.

Full-time Student Fees (under review – all fees are subject to change in 2004-2005)
(Domestic and International Students)

	Full-time Domestic	Full-time International
Course tuition	4184.00	11151.00
Ancillary	578.88	578.88
Student levies	419.04	419.04
Foreign Health Insurance Plan (UHIP)	0.00	612.47
Total	\$ 5181.92*	\$ 12761.39

Trent/Fleming Nursing Program Fees (under review – subject to change in 2004-2005)

Course tuition	4184.00
Ancillary	740.24
Student levies	424.45
Total	\$ 5348.69

<i>If paid by instalment:</i>	<i>Full Time Domestic</i>	<i>Full Time International</i>	<i>Full Time Nursing</i>
First instalment	3337.00*	8129.00*	3438.98
Second Instalment	1904.92	4692.39	1969.70

* new students add \$45.00 for Introductory Seminar Week to total of first instalment.

- International students pay an additional \$6967.00 (2003-2004 rate) in tuition fees. International students also pay \$612.47 (2003-2004 rate) for health insurance with their fee payment. Health insurance coverage is compulsory. Without this additional payment, registration will not be complete.
- New full-time students pay an additional \$45.00 (2003-2004 rate) Introductory Seminar Fee with their fee payment (not included in the above). This fee is non-refundable.
- The first instalment includes a \$60.00 instalment fee.
- Students who do not meet the January 19 second instalment deadline will be charged a \$75.00 late payment fee.
- Part-time students may find information about fees in the Calendar for Part-Time Studies issued by Julian Blackburn College.
- There may be additional fees for field trips and course material in certain courses.

Residence and Meal Plan Cost for 2003 to 2004 (Subject to change for 2004 to 2005)

Champlain Single Room with 2150 Flex Plan	\$7,066
Champlain Apartment Suite (Double Bedroom) with 1500 Flex Plan	5,275
Lady Eaton Single Room with Board Plan	7,459
Lady Eaton Double Room with Board Plan	6,620
Lady Eaton Apartment (Single Bedroom) with 1500 Flex Plan	6,126
Lady Eaton Apartment (Double Bedroom) with 1500 Flex Plan	5,377
Otonabee Single Room with 2150 Flex plan	7,066
Otonabee Double Room with 2150 Flex plan	6,227
Otonabee Apartment (Single Bedroom) with 1500 Flex Plan	6,126
Otonabee Apartment (Double Bedroom) with 1500 Flex Plan	5,377
Catharine Parr Traill Single Room with Board Plan	7,459
Catharine Parr Traill Double Room with Board Plan	6,620
Catharine Parr Traill Triple with Board Plan	5,869
Catharine Parr Traill Apartment (Double Bedroom) with 1500 Flex Plan	5,481
Peter Gzowski @ Argyle Street Double Room with Board Plan	6,385
Peter Gzowski @ Symons Campus Single Room with Flex Plan	TBD

*Residents of Peter Gzowski College @ Argyle Street must arrange for telephone services through Bell Canada.

Local phone charges are not included in Peter Gzowski College residence fees.

2003-2004 Tuition and Ancillary Refund Schedule (Subject to change in 2004-2005)**Summer 2003** – Peterborough / Off-Campus Course

Session/Course	100%*	75%	50%	25%	0%
8 Week course					
Full course	Apr 27	Apr 28-May 8	May 9-19	May 20-28	May 29
T1 half course	Apr 27	Apr 28-May 1	May 2-7	May 8-12	May 13
T2 half course	May 29	May 30-Jun 3	Jun 4-9	Jun 10-13	Jun 14
12 Week course					
Full course	Apr 27	Apr 28-May 12	May 13-26	May 27-Jun 11	Jun 12
T1 half course	Apr 27	Apr 28-May 5	May 6-12	May 13-16	May 17
T2 half course	Jun 11	Jun 12-23	Jun 24-Jul 2	Jul 3-8	Jul 9
6 Week course					
Full course	Jun 30	Jul 2-10	Jul 11-17	Jul 18-24	Jul 25
– including reading courses					
T1 half course	Jun 30	Jul 2-7	Jul 8-10	Jul 11-14	Jul 15
T2 half course	Jul 23	Jul 24-29	Jul 30-Aug 4	Aug 5-7	Aug 8

Field Courses:

<i>Anthropology</i> CLC1 Tunisia	May 9	May 10-15	May 16-21	May 22-26	May 27
<i>Environmental & Resource Science/Biology</i> 386H	May 17	May 18-20	May 21-22	May 23-26	May 27
<i>Environmental & Resource Science/Biology</i> 387H	Aug 23	Aug 24-26	Aug 27-28	Aug 29-Sep 2	Sep 3
Native Studies	Aug 10	Aug 11-13	Aug 14	Aug 15-18	Aug 19
<i>Anthropology</i> 300 Ontario, Session 1	May 19	May 20-26	May 27-Jun 2	Jun 3-9	Jun 10
<i>Anthropology</i> 300, BZ-Session 1	May 9	May 10-15	May 16-20	May 21-26	May 27
<i>Anthropology</i> 300, BZ-Session 2	Jun 13	Jun 14-19	Jun 20-24	Jun 25-30	Jul 1
Biology Field Courses	Jun 27	Jul 2-10	Jul 11-17	Jul 18-24	Jul 25

* 100% refund given before the start of classes, less handling charge of \$70 for full withdrawals

Full courses 2003–2004 or full-time Peterborough students

<i>Period start and end date</i>	<i>Tuition and Ancillary</i>
Sep 08 Sep 26	\$300 tuition deposit – non-refundable – balance refunded
Sep 27 Oct 27	75% refund of tuition and ancillary
Oct 28 Jan 5	40% refund of tuition and ancillary
Jan 7 Feb 10	20% refund of tuition and ancillary
after Feb 11 – no refund on full courses	

Half courses – Fall (per course billed students)

<i>Period start and end date</i>	<i>Tuition and Ancillary</i>
Sep 08 Sep 26	\$100 tuition deposit – non-refundable – balance refunded
Sep 27 Oct 15	75% refund of tuition and ancillary
Oct 16 Oct 26	40% refund of tuition and ancillary
Oct 27 Nov 7	20% refund of tuition and ancillary
after Nov 8 – no refund on Fall half courses	

Half courses – Winter (per course billed students)

<i>Period start and end date</i>	<i>Tuition and Ancillary</i>
Jan 5 Jan 23	\$100 tuition deposit – non-refundable – balance refunded
Jan 24 Feb 10	75% refund of tuition and ancillary
Feb 11 Feb 20	40% refund of tuition and ancillary
Feb 21 Mar 5	20% refund of tuition and ancillary
after Mar 6 – no refund on Winter half courses	

- Student Government fees are non-refundable after the first day of classes.
- Student Association levies are not refundable after the start of classes
- The above schedule applies only to the tuition and ancillary fees
- The amount of the refund depends on the amount refundable and the amount paid
- This refund schedule applies to students paying on a per course basis. Students paying full-time fees and dropping courses but still carrying a full-time load do not receive any refund unless the student changes/drops from full-time status to part-time status or completely withdraws from the University.

FINANCIAL AID AND RECOGNITION OF ACADEMIC EXCELLENCE

Students at Trent who require financial aid to pursue their studies are eligible for a wide range of loans, special opportunity grants, work study opportunities, bursaries, and awards. In addition the University has a full and diverse scholarship program designed to foster and reward high academic achievement among its students.

Thank You to our Benefactors

The funds which we are able to offer students for financial aid and recognition of academic excellence are the gifts of individuals, corporations and other organizations through annual, campaign and legacy giving programs and through support from various levels of government. We are grateful to our past and current donors for their contributions which benefit our students and support education and research at Trent.

For more information about the Trent University Endowment Fund and named endowment funds please contact:

The Development Office
Telephone: (705) 748-1601
Fax: (705) 748-1605
E-mail: smackle@trentu.ca

Financial Aid Office

Telephone: (705) 748-1524
Fax: (705) 748-1629

E-mail: financialaid@trentu.ca

Manager

Joyce Sutton, Assistant Registrar, Financial Aid & Services

The Financial Aid office administers the various financial aid programs available at Trent, and provides assistance and advice to students seeking financial aid. Detailed information on financial aid is available through the office located in the Office of the Registrar.

Ontario Student Assistance Program (OSAP)

The Province of Ontario and the Government of Canada provide a number of integrated assistance programs to university students through the Ontario Student Assistance Program.

Student Loans (OSAP)

To qualify for Canada Student Loans portion the student and/or parents, guardians or sponsors must be Canadian Citizens or Permanent Residents. To qualify for Ontario Student Loans portion the student must also meet certain residency criteria.

The purpose of the OSAP Student Loans program is to assist full-time (at least 60% course load) students when the financial resources available to them from parents, spouses, summer employment or other sources are insufficient to meet estimated educational costs.

Applications are available electronically at www.osap.gov.on.ca or by application booklet available through high school guidance offices, University and College Financial Aid Offices in the Spring. Although, you may apply for assistance for more than one school, our recommendation is to wait until you have accepted admission, and direct your application to the applicable school.

The Ministry normally does not start processing any OSAP applications until June.

The application deadline for the 2004-2005 academic year is January 30, 2005.

Ontario Special Bursary Plan (OSBP)

Provides a limited number of bursaries to married students, sole-support parents and students with disabilities who study on a part-time basis (less than 60% course load). Tuition, books, travel costs and child care to a maximum of \$2,500 per year is available. Applications are available at the Financial Aid Office. The application deadline is the last day of the month in which your program begins.

Child Care Bursary

Available to married students and sole-support parents with three or more children, who apply and qualify for OSAP assistance. Applications will be available at the Financial Aid Office at the beginning of each academic session.

Bursary For Students with Disabilities

Available to students who incur disability related educational expenses. Bursaries are available during the whole academic year. Students who are eligible to receive regular OSAP Student Loans, OSBP and Part-Time Canada Student Loans may apply.

Ontario Work Study Program (OWSP)

Funded by the Province of Ontario, provides part-time jobs on campus during the study period for full-time students (minimum 60% course load) whose financial needs are not met through the loan programs. Applications for these positions will be available at the Financial Aid Office in September.

Special Opportunity Grants and Part-Time Canada Student Loan

Part-time students (registered in less than 60% course load) with demonstrated financial need may qualify for a grant up to \$1,200 from the federal government. If you require additional assistance you may be eligible for a Canada part-time student loan.

Special Circumstances

Students with Disabilities

Trent University provides bursaries for Ontario residents with disabilities who are not eligible for the previous programs. Students are encouraged to contact the Disabilities Services Office early to discuss their needs and obtain an application. See p. 285 for details regarding students with special needs.

Emergency Short-term Loan Funds

Loan funds are available on a short-term basis to assist needy students to meet emergency situations. Among these funds is the Henry and Mary Nokes Fund established by the Cobourg and District Labour Council to honour Mr. and Mrs. Nokes, and augmented by private donors. Funds have also been made available through a joint undertaking of the Trent University Alumni Association, the Trent Student Union (Development Projects Fund) and the college cabinets/councils. A fund has also been established by the Major Bennett Chapter, IODE, Peterborough, Ontario.

Students from Outside Ontario

Some forms of financial aid (noted below) are available only to residents of Ontario.

Canadian students from outside Ontario who require financial aid should consult with officials in their home province to apply for federal and provincial loans and bursaries.

Students from foreign countries are strongly urged to consult with educational authorities and sponsoring agencies in their own country. The Trent International Program (TIP) provides information regarding financial programs for international students.

Ontario Student Opportunity Trust Fund (OSOTF)

In 1996-97 the Province of Ontario established the Ontario Student Opportunity Trust Fund. Fifty percent of this endowed fund is provided by the Province and 50% has been raised through fundraising by the University. Annual proceeds from investment earnings are available in the form of in-course bursaries to Ontario residents. A second phase of OSOTF was introduced in 2003. In some instances, academic excellence as well as financial need will be a determining factor. All bursaries and awards established or modified since 1996-97 must adhere to the OSOTF guidelines listed below. Where this is the case it is noted in the relevant descriptions.

OSOTF Guidelines

- Students have lived in Ontario for at least 12 months in a row up to the beginning of their full-time postsecondary studies; or
- Students' spouses have lived in Ontario for at least 12 months in a row up to the beginning of the current academic year, and their spouses were not enrolled in full-time post-secondary studies during this 12 month period; or
- Students' parents, step-parents, legal guardians or official sponsors have lived in Ontario for at least 12 months in a row up to the beginning of their current study period.

Bursaries

Unless otherwise noted, bursaries are awarded annually and are available to all undergraduate full-time and part-time students with documented financial need and satisfactory academic achievement.

TUITION BURSARIES

To assist undergraduate students cope with increased tuition and related educational costs, Trent University awards partial tuition bursaries to financially needy students. To be eligible, students must apply, provide information to support their need for assistance and have satisfactory academic achievement. Applications must be submitted to the Financial Aid Office by the deadlines specified on the application.

For full-time students new to Trent University, Personal Financial Profiles are mailed to their home address in the Spring and must be submitted to the Financial Aid Office by the specified dates. Students admitted to part-time studies may obtain a bursary application at Julian Blackburn College Offices (Peterborough and Oshawa) in early September.

Students returning to Trent University for a subsequent session may apply for bursary assistance. Applications are available from the college offices during the first week of September, and must be submitted to the Financial Aid Office by September 30.

IN-COURSE BURSARIES

The following bursaries are usually awarded in the second semester of each academic year and are based on financial need and satisfactory academic achievement. Applications are available from the Financial Aid Office or the college offices in January. The deadline date for submissions is January 31.

Eileen Allemang Bursary

Awarded to a student of Peter Robinson College who has made a contribution to College activities.

Alumni OSOTF Bursary

Established by the Trent University Alumni Association. Awarded to returning students who have made a significant contribution to University life. OSOTF guidelines apply.

Amyotte Bursary

Established by Mary L. Amyotte (Chemistry department, Trent University 1964-1990). Awarded to the most deserving second year student majoring in Chemistry. The recipient of this award will be selected by a Professor and an Assistant Professor of Chemistry from the Chemistry department. OSOTF guidelines apply.

Anthropology Faculty Bursary

Awarded to the student with the highest overall standing in *Anthropology 100* from the previous year.

Barkleys of Avonmore Bursary

Established by Fred Barkley of Avonmore. Awarded to a student in any undergraduate year, who is a resident of a province other than Ontario.

Barkleys of Avonmore Visa Bursary

Established by Fred Barkley of Avonmore. Awarded to a Visa student.

Patricia Baxter Anishnabe Kwe Bursary

Established in honour of Patricia Baxter. Awarded to Aboriginal women in their upper year studying science, computer studies/new technologies or business administration. OSOTF guidelines apply.

Birks Family Foundation Bursary

Awarded to a student in any undergraduate year.

Philip and Annie C. Black Bursary

Established by the late Isadore and the late Morris Black of Peterborough in memory of their father, Philip Black, the first Rabbi in Peterborough, and their mother, Annie.

Isadore Black Memorial Bursary

Established by his family and friends in memory of Isadore Black, founding member of the Trent University Board of Governors and a well-respected Peterborough businessman and community leader. Awarded to undergraduate students. OSOTF guidelines apply.

Julian Blackburn College Student Association Oshawa Bursary

Awarded to part-time students studying in Oshawa on a continuing basis who have been registered in Julian Blackburn College for two previous sessions. OSOTF guidelines apply.

Julian Blackburn College Student Association Peterborough Bursary

Awarded to part-time students studying on a continuing basis who have been registered in Julian Blackburn College for two previous sessions. OSOTF guidelines apply.

B'nai Brith (Reginald R. Faryon) Bursary

Established by the Peterborough Branch of B'nai B'rith in memory of Reginald R. Faryon. Awarded to any undergraduate student.

Bourinot Bursary

Awarded to a full-time student from Peterborough County. Preference will be given to an employee of the Canadian Tire Store in Peterborough or a member of his or her immediate family.

Jacob F. Burnham Memorial Bursary

Established by Daisy McCarrell, a former employee of Trent University. Preference will be given to students majoring in Economics, Business Administration and related fields.

Ron Campbell Bursary

Established by Ron Campbell Enterprises, which operates McDonald's Restaurants in Peterborough and Lindsay. Awarded to students enrolled in the Environmental & Resource Science/Studies program. Recipients must be from Victoria or Peterborough County.

Champlain College Cabinet Bursary

Awarded to a Champlain College student with a minimum C- (60%) average. The recipient will be chosen by a committee of the Master and the College Cabinet President.

Harry Cherney Memorial Bursary

Established in memory of the late Harry Cherney by wife, Erica, his sons, Brian and Lawrence, family and friends. Awarded to students in Business Administration, Economics or Computer Science/Studies.

Christian Church Bursary

Established by the Christian Church (Disciples of Christ) in Canada. Awarded to upper year Aboriginal students from Ontario interested in continuing their education at Trent University. OSOTF guidelines apply.

City of Peterborough Employees' Bursary

Established by the employees of the City of Peterborough. Awarded to a child or spouse of a City of Peterborough employee.

Class of 1967 Bursary

Awarded to full-time undergraduate sons or daughters of a member of the class of 1967. OSOTF guidelines apply.

Dan Coholan Rowing Bursary

Established by alumnus Dan Coholan '77. Awarded to a returning full-time student who participates in the varsity rowing program. OSOTF guidelines apply.

Commoner Bursary

Established by The Commoner Limited. Awarded to a full-time student with a minimum C average.

Community Service Bursary

Established by the Quaker Oats Employees' Independent Union (Cereals). Awarded to a full-time student from Peterborough County.

County of Peterborough Bursary

Established by the County of Peterborough. Awarded to students in any undergraduate year who have established a minimum two years residency in the County of Peterborough (which includes the eight townships).

Creery Memorial Bursary

Awarded to a student majoring in Philosophy entering the fourth year of study with a B+ or better average. OSOTF guidelines apply.

Joyce Cumming Memorial Bursary

Established in memory of Joyce Cumming by husband, Stuart, children Shauna and Rod (Canadian Studies '87), family and friends. Awarded to an upper year student in Canadian Studies. OSOTF guidelines apply.

John S. Cunningham Memorial Bursary

Established in memory of the late John Scott Cunningham by associates of Bell & Howell, friends and fellow members of the Stoney Lake Cottagers Association. Awarded to students in any undergraduate year. OSOTF guidelines apply.

Harold "Pat" Dooley Bursary

Established by Pat Dooley at the age of 94 in 2001. To further support his commitment to assisting students, he established a bequest in his will to increase the endowed portion of the fund.

Dainard Foundation Bursary

Established by Garnet and Clara Dainard, Peterborough, to be awarded to students in any undergraduate year.

Michael Frisch Memorial Bursary

Established in memory of the late Michael Frisch. Awarded to a Canadian undergraduate student who is actively involved in extracurricular activities within or beyond the university.

Finn and Eileen Gallagher Bursary

Established by alumni, family and friends. Awarded to Otonabee College students chosen by the Head of College in consultation with the Director of Alumni Affairs. OSOTF guidelines apply.

GE Fund Undergraduate Award Bursaries for Aboriginal Students

Established by GE Fund Ontario. Awarded to seven entering Aboriginal students (status, non-status, Metis or Inuit) registered in Business Administration or Computer Science/Studies programs or any B.Sc. program. Starting in 2002/03, they are renewable at a reduced level, in subsequent three years of study provided academic standing is maintained.

GE Peterborough Bursary

Awarded to a Catharine Parr Traill College upper year student. Candidates must have been on the Dean's list, and maintain an average of 80%. Value: \$1000.

German Studies Bursary

Awarded to students majoring in German Studies in second year or higher.

Jon and Shelagh Grant Bursary

Established in 1999, this bursary is given to a third or fourth year student from Canada's Northern Territories based on academic achievement and financial need. Preference will be given to a student of Inuit heritage.

Christopher Greene Bursary

Established by alumni Doug and Maureen Loweth, in honour of History Professor Emeritus, Chris Greene. Awarded to a history student. OSOTF guidelines apply.

Errol Hanbidge Memorial Bursary

Established by his wife, Audrey Hanbidge. OSOTF guidelines apply.

Naomi Harder Memorial Bursary

Established by family and friends in memory of Naomi S. Harder, a second year Comparative Development major at Trent University at the time of her death on December 19, 1988; in the spirit of Naomi's concern for others and her deep commitment to international understanding, awarded to a student based on his/her dedication to international and national development, peace and justice issues.

Brian Heeney Memorial Bursary

Established in memory of the late Brian Heeney, Vice-President (Academic) and Provost of Trent University at the time of his death on September 17, 1983. Awarded to a graduate from Lakefield College School or Lakefield District Secondary School, based on academic standing and distinction in cultural, athletic or other community activities. OSOTF guidelines apply.

Victor E. Henderson Bursary

Established in honour of Victor E. Henderson, local campaign chairman of the Trent University Second Decade Fund. Awarded to first year students from Peterborough County based on academic achievement and distinction in cultural, athletic or other community activities.

Henniger/Pilkington Bursary

Established in honour of Perry and Ella Henniger and Lawrence and Norah Pilkington, the parents of Jim and Isabel Henniger. Awarded to well rounded students, actively involved in the life of the University, be it student government, sports or music programs or University clubs. Awarded on a renewable basis to second, third or fourth year students. OSOTF guidelines apply.

Agneta Holt Bursary

Established by the University Women's Club of Peterborough as a memorial to the late Mrs. Agneta Holt. OSOTF guidelines apply.

David Irwin Memorial Bursary

Established in memory of David Sutherland Irwin, a member of Trent's first graduating class and a former Professor of Biochemistry. Awarded to a student entering the third or fourth year of an Honours program in Chemistry or Biochemistry & Molecular Biology. OSOTF guidelines apply.

Richard P. Janes Memorial Bursary

Established by his parents, brothers and sisters as a lasting memory of Richard P. Janes. Awarded to a special needs student, studying on a full- or part-time basis in the Humanities.

Jean Ann Johnston-Gauld Bursary

Established by the family in memory of Jean Ann Johnston-Gauld a part-time student at Trent University from 1982-85. Awarded to part-time students. OSOTF guidelines apply.

Rhoda Johnston Memorial Bursary

Established by Robert Johnston in memory of his wife Rhoda, a long term past employee of Trent University. Awarded to undergraduate students in a Canadian Studies program.

KPMG Bursary

Awarded to one student in each of the second-, third- and fourth-year classes who is pursuing a joint major in Business and Computer Science/Studies.

James S. Keating Memorial Bursary

Established by his family as a permanent remembrance of James S. Keating, husband of Jean, a former Trent employee and father of Craig ('81).

Principal H.R.H. Kenner and PCVS Faculty Bursary

Established by the PCVS Form 5 graduating class of 1937 in honour of Principal Kenner and their teachers. Support has also come from the class of 1939. Awarded to graduates of secondary schools in Peterborough County.

Keppler Bursary of German Studies

Established by Hans and Christine Keppler. Awarded to upper-year students studying German.

Kiwanis Club of Peterborough Bursary

Awarded to a student in second year or higher majoring in Business Administration, Computer Studies or Economics. Applicants must be residents of the City or County of Peterborough.

Lady Eaton College Students' Bursary

Awarded to a student of Lady Eaton College.

Lakefield Research Bursary

OSOTF guidelines apply.

Louis and Bess Loftus Fellowship Bursary

Established by the late Barnett David Loftus in memory of his parents. OSOTF guidelines apply.

Joel McDonald Memorial Bursary

The gift of alumni friends and family of the popular and respected "Joe" McDonald, a stalwart of the annual Team Trent Alumni Reunion. Awarded to a Trill College student.

Malcolm Montgomery Bursary

A bequest from the estate of the late Malcolm Montgomery. Awarded to students in the fourth year of the Native Studies Honours program.

William Hamilton Munro Bursary

Established by the late Mrs. Angele Munro in memory of her husband William Hamilton Munro. Awarded to students in any undergraduate year.

John C. McDonald Memorial

Established in memory of Professor John C. McDonald, former chairman of the Sociology department.

John and Elaine McClintock Bursary

OSOTF guidelines apply.

Métis Bursary

Established through funding initiatives of the Métis Nation of Ontario (MNO), Métis Training Initiatives (MTI) and the Ontario government. Awarded to post-secondary students of Métis ancestry. Students must be residents of Ontario for one year before the start of their post-secondary education. OSOTF guidelines apply.

Native Studies Bursary

Established by the Native Studies program. Awarded to students of Métis and non-status Indian ancestry who do not qualify for educational assistance from the Indian Student Support program.

Arnold Nofall Bursary

Established in memory of Arnold Nofall by his wife Doris. Awarded to a student in the School of Teaching and Professional Learning. OSOTF guidelines apply.

Nursing Bursary (B.Sc.N.)

Awarded to full-time students in the Trent/Fleming B.Sc.N. program.

Otonabee College Council Tenth Year Bursary

Awarded to an Otonabee College student on the basis of academic performance, athletic ability and participation within the community. The recipient will be chosen by a committee of the Master, the Senior Tutor, the President and Vice-President of College Council.

Norma and Lloyd Parnall Bursary

Established by the family in honour of Norma and Lloyd Parnall. Awarded to Aboriginal women successfully studying in undergraduate or postgraduate programs. OSOTF guidelines apply.

Patterson-Drain Pioneer Bursary

Established to honour the pioneers of Peterborough County including John Drain and his wife, Ann (nee Drain also) who came from the county of Antrim, Ireland to settle in Dummer Township in 1849. These pioneers cut farms out of the bush and created the communities we enjoy today. Awarded to a Peterborough County student in fourth year who has demonstrated the qualities of the early settlers of Peterborough County in their perseverance, their community spirit and their sense of adventure. OSOTF guidelines apply.

Dennis Patterson Northern Bursary

Established to recognize the visit of the Government Leader of the Northwest Territories in 1990. Awarded to a student from the Northwest Territories.

Dr. Julia Phelps Memorial Bursary

Established in memory of Dr. Julia Phelps, an honorary graduate and long-time friend of Trent. Awarded to a student registered in the Cultural Studies program. OSOTF guidelines apply.

Peter Robinson College Bursary

A bequest from the estate of the late Lady Maude E. Robinson; established in the name of Peter Robinson, the founder of Peterborough and the brother of Sir John Beverley Robinson, 1st Baronet. Awarded to students of Peter Robinson College. OSOTF guidelines apply.

Peter Robinson College Cabinet Bursary

Established by the Peter Robinson College Cabinet. Awarded to students of Peter Robinson College.

Peterborough Professional Fire Fighters' Bursary

Established by gifts to Trent's Second Decade Fund by the Peterborough Professional Fire Fighters Local Number 519. Further gifts were made to the For Tomorrow Campaign, the Ontario Student Opportunity Trust Fund and the Beyond Our Walls Campaign.

Fern A. Rahmel Bursary

Established by Dr. Fern A. Rahmel. Awarded to a woman of proven academic ability who is over twenty-five years of age or to a woman of proven academic ability entering the third or fourth year of an Honours program.

The William B. Reid Native Bursary

Established by William B. (Bill) Reid. Awarded to Native students in any year.

The Scott Rennie Memorial Bursary

Established with gifts from alumni, family and friends, in memory of Scott Rennie, an alumnus of Otonabee College, this bursary will be awarded to an Otonabee College student chosen by the Master of the College.

J. J. Robinette Memorial Bursary

Established in memory of J. J. Robinette, a member of the first Board of Governors and Chancellor from 1984 to 1987. Preference will be given to a History major. OSOTF guidelines apply.

Rotary Club of Peterborough Bursary

Awarded to full-time students who are permanent residents of Peterborough City and County, who have physical disabilities and/or other special needs as defined under the Human Rights Code. Preference will be given to a first year student. OSOTF guidelines apply.

Sara Bursary

Established for a student or students enrolled in part-time studies at Julian Blackburn College with a minimum average of 66%. Preference will be given to sole support mothers who have completed at least five courses towards an undergraduate degree. OSOTF guidelines apply.

Setzu Suzuki Bursary

Established by David Suzuki in memory of his mother, Setzu Suzuki. Awarded to a student from the Third World.

Sir Sandford Fleming College Bursary

Established by Fleming College in recognition of Trent's 25th anniversary and to acknowledge the excellent relationship between our institutions. Awarded to a graduate of Fleming College enrolled at Trent University in a full-time or part-time program. Value: tuition fees.

Sisters of St. Joseph of Peterborough Bursaries

Established by the Sisters of St. Joseph of Peterborough. Awarded to students completing the Teacher Education program for use in their fourth year at Queen's University. OSOTF guidelines apply.

Bill and Dorothy Slavin Bursary

Established by members of the Slavin family, in memory of their parents, Bill and Dorothy Slavin. Awarded to a student from a developing country.

J. Herbert Smith Bursary

Established by the late J. Herbert Smith, who, as Chief Executive Officer, was instrumental in arranging for the original gift of land to Trent University by GE Canada.

T. D. Bank Financial Group Bursary

Awarded to students registered in Computer Science/Studies courses. Recipients may be residents of any province or territory in Canada.

David Tapscott Bursary

Established by his family in memory of David Tapscott ('69). Awarded to a student in any year. OSOTF guidelines apply.

Catharine Parr Traill College Students' Bursary

Awarded to a student of Catharine Parr Traill College.

Trent Central Student Association Bursary

A gift of the Trent Central Student Association. Awarded to a student in any year who displays academic progress. OSOTF guidelines apply.

Trent University Alumni Bursary

Established by the Trent University Alumni Association. Awarded to returning students who have made a significant contribution to University life.

TUFA Bursary

Funded by the faculty and professional librarian members of the Trent University Faculty Association. Awarded to students in second year or higher, who achieved a minimum B average in the preceding year.

Trent University S & A Bursaries

Established by the employees of Trent University. Awarded to students who demonstrate all-round achievement and character, and are permanent residents of the Province of Ontario.

University Women's Club 50th Anniversary Bursary

Established by the University Women's Club of Peterborough in 1987 in honour of their 50th anniversary. Awarded to a student currently registered in the fourth year of an Honours program and proceeding to graduate studies at Trent University.

Visa Student Bursary

Established by the Board of Governors of Trent University. Awarded to visa students in any undergraduate year.

D. R. Walling Family Bursary

Established by the Walling Corporation of Lindsay. Awarded to students majoring in business or environmental studies. Based on fitness/health and community involvement.

Rodney F. White Memorial Bursary

Established by alumni, family and friends, in memory of Rodney F. White, Professor of Sociology. Awarded by preference to Sociology majors. OSOTF guidelines apply.

Billie Wilder Bursary

Established by Judith R. Wilder, an honorary member of Trent's Board of Governors. Awarded to a student in any undergraduate year. OSOTF guidelines apply.

P. S. B. Wilson Bursary

Established in honour of Paul S. B. Wilson, Director of Athletics. Awarded to a returning student on the basis of a significant contribution to the athletic program. OSOTF guidelines apply.

INTERNATIONAL BURSARIES

Students who enrol in International study programs through Trent University are eligible to apply for any bursary listed in the Calendar, but the following bursaries are specific to these programs.

Dr. Leslie Calvert Bursary

Named after one of Trent's first students of German. Awarded to a student participating in the Year Abroad program in Freiburg.

W.A.C.H. Dobson Memorial Student Travel Bursary

Named in honour of W.A.C.H. "Bill" Dobson, a renowned scholar and great friend of Trent. Awarded to a Trent student studying abroad or an incoming visa student with travel costs. In recognition of Professor Dobson's exceptional interest in China and the Pacific Rim, preference is given to students traveling to study in Asia or coming to Trent from that region. Administered by the Trent International Program.

Joe Wearing International Travel Bursary

Established in honour of Joseph Wearing, Professor Emeritus and former chair of Political Studies. Awarded to an international student coming to Trent University to take courses in Political Studies. It is open to visa students admitted to the University for one-year exchange and full degree programs. Administered by the Trent International Program.

EXTERNAL BURSARIES

Many organizations and companies offer bursary assistance to post-secondary students. Information is available in high school guidance offices as well as Financial Aid offices. The following bursaries are administered through the Trent Financial Aid Office.

Hamilton Community Foundation

This foundation provides assistance for full-time undergraduate students who have graduated from publicly funded secondary schools in the Hamilton-Wentworth area. Deadline dates for receipt of applications by the foundation are October 1, and February 1. Applications are available through the Financial Aid Office and student must be recommended by that Office.

Leonard Foundation

Bursaries averaging \$1250. Preference will be given to sons and daughters of clergy, teachers, military personnel, graduates of RMC, members of the Engineering Institute of Canada and the Mining and Metallurgical Institute of Canada. Application deadline is March 15. Applications are available through the Financial Aid Office.

Masonic Foundation of Ontario

The Foundation aims to provide assistance to upper year students who have exhausted other means of assistance and cannot complete their year, due to emergency situations. Applications are available through the Financial Aid Office and students must be recommended by the Financial Aid Office.

Royal Canadian Legion

Bursary assistance of up to \$1000. Awarded to War veterans and their children and grandchildren, ordinary members of the Legion and their children and grandchildren, associate members of the Legion and their children, and Ladies' Auxiliary members and their children. Awards are determined by the District Bursary Committee. Applications are available at the Financial Aid Office.

Awards

Financial assistance through Trent University's award program is designed to acknowledge those students with outstanding academic qualifications and proven financial need. These awards are made possible through the Ontario Student Opportunity Trust Fund. In 1996/97 the Province of Ontario established the Ontario Student Opportunity Trust Fund. 50% of this fund is provided by the Province, and 50% has been raised through fund raising initiatives by the University. The trust fund represents an endowment fund. Annual proceeds from investment earnings are available in the form of awards to Ontario residents enrolled full-time, part-time or as graduate students. (Refer to specific OSOTF residency guidelines listed under bursaries). Awards are made in January unless otherwise noted.

Bagnani Undergraduate Awards

Established in 1997 by the Dewar Memorial Fund in honour the late Professor Gilbert and Stewart Bagnani. Awarded to Ontario students in the final year of an Honours program who demonstrate both academic excellence and financial need. Preference will be given to undergraduate students in classical (traditional) disciplines of the humanities, especially Classics, Archaeology/Anthropology, Ancient History, History, Philosophy and English. OSOTF guidelines apply.

Cranston Family Award

A gift of alumnus/a John and Mary Cranston. Awarded to a current Trent student(s) entering fourth year who demonstrates high academic achievement and financial need. Preference will be given to students majoring in History and Anthropology. OSOTF guidelines apply.

City of Peterborough Awards

Established in 1997. Awarded to one first-year student from each Peterborough high school, who is a resident of the city of Peterborough, and has graduated with a minimum of 80% final average. OSOTF guidelines apply. Applications will be mailed to students in July.

de Pencier Family Award

The gift of business executive, John de Pencier, a long-time member of Trent's Board of Governors and chair from 1987-1991, and his wife, Marni, Trent parents. Awarded to a student of high academic standing who is in financial need. OSOTF guidelines apply.

Dudas Award

A gift of Frank and Jane Dudas. Awarded to a first-year student who demonstrates high academic achievement and financial need. OSOTF guidelines apply.

Lopes Family Award

Established by Ana P. Lopes, a member of Trent's Board of Governors, in honour of her parents, Antonio F. and Gertrudes M. Lopes, originally of Lisbon, Portugal, in recognition of their interest in politics and current affairs and their leadership and community service within the Portuguese-speaking community of Canada. Awarded to a student in financial need who has demonstrated high proficiency in Western European Studies, with special consideration of Portuguese Studies. OSOTF guidelines apply.

Jean McKerracher Business Administration Award

Awarded to one or two upper year Business Administration student(s) whose work most demonstrate(s) the creativity and innovative spirit essential to entrepreneurial success. OSOTF guidelines apply.

T. E. W. Nind Award

Established in memory of Professor T. E. W. (Tom) Nind, President of Trent University from 1972-79. Awarded to a major or joint-major in Mathematics who demonstrates financial need and high academic standing. OSOTF guidelines apply.

Sarah D. Patterson Award for Aboriginal Language Studies

Established in memory of Sarah D. Patterson (1889–1979), a Mohawk of the Bear Clan who was born at Six Nations and spoke four languages; Mohawk, Cayuga, Tuscarora and English. Awarded to an upper year or graduate student of high academic standing who is in financial need and shows a keen interest in Aboriginal languages.

Robert Darou Norris Prichard Award

Awarded to a full-time undergraduate Canadian student entering fourth year majoring in Environmental & Resource Science/Studies. Applicants must demonstrate excellent academic achievement and financial need with preference given to residents of the Counties of Haliburton, Northumberland, Peterborough, Victoria and the Regional Municipality of Durham.

David Rae Memorial Award

A gift from family members. Awarded to a student entering fourth year of any academic program who has demonstrated academic excellence and financial need.

Peter L. Roach Award

Established to honour Peter L. Roach, Director of Education from 1975 to 1992, in recognition of his years of service to the Peterborough Victoria Northumberland and Clarington Roman Catholic Separate School Board. In selecting the recipient, priority will be given to a student who has studied in the PVNC Separate School system and who displays academic excellence and financial need. The funding for this award was provided initially by the employees of the PVNC Separate School Board through the For Tomorrow Campaign and by friends and associates of Mr. Peter Roach. Additional funding was provided by donations to the Ontario Student Opportunity Trust fund. OSOTF guidelines apply.

Scholarships

Trent University offers a full and diverse scholarship program designed to foster and reward high academic achievement among its students. Trent's most prestigious scholarships, the Champlain Scholarships, the Board of Governors' Leadership Scholarships, the Michael Treadwell Scholarship and the Trent University Special Admissions Scholarships, are renewable scholarships awarded to new students entering the first year of study who have displayed exceptional academic and extra-curricular achievement, and who are judged likely to make a significant contribution to the life of the University.

One application which includes all of the above is required. The application can be found at www.trentu.ca/registrar/scholarships.html. Previous winners of these scholarships have normally had an average of 90% or better.

Students who do not apply or are not eligible for the above scholarships will be automatically considered for the National Renewable Scholarships or other scholarships. Students will be notified upon admission if they have been awarded a scholarship.

Champlain Scholarships

Awarded to entering students of exceptionally high academic achievement and promise. These scholarships have an overall value of \$17,500 consisting of \$8,500 in the first year and \$3,000 in each of the succeeding three years providing that an academic average of 80% is maintained in five full courses or equivalent in each academic year.

Michael Treadwell Scholarship

Established in 2000 to honour the late Professor Michael Treadwell, one of the earliest members of Trent University's department of English Literature, a noted scholar and bibliographer in the field of seventeenth- and eighteenth-century English Literature, and a devoted friend to his many undergraduate students. Awarded every four years to an entering student of exceptionally high academic achievement and promise intending to major in the humanities. It has an overall value of \$16,000, consisting of \$4,000 in each of four years of study providing that scholarship standing of 80% is maintained in five full courses or equivalent in each academic year. Awarded for the first time for the 2004 academic year and at four-year intervals thereafter.

Board of Governors' Leadership Scholarships

Awarded to an entering student who has shown outstanding leadership and involvement in his/her community as well as high academic achievement. This scholarship has an overall value of \$12,000 consisting of \$4,500 in the first year, and \$2,500 in each of the succeeding three years providing that scholarship standing of 80% is maintained in five full courses or equivalent in each academic year.

Trent University Special Admission Scholarships

Awarded to entering students of outstanding academic and extra-curricular achievement. They have an overall value of \$11,000 consisting of \$4,250 in the first year, and a minimum of \$2,250 in each of the succeeding three years providing that scholarship standing of 80% is maintained in five full courses or equivalent in each academic year.

National Renewable Scholarships

Awarded to all students entering their first year at Trent with a final academic average of 80% or higher. These students may be entering directly from high school or transferring from community college or another university. While at Trent University, students must maintain an 80% average in five full courses or equivalent each academic year for renewal. Scholarship values range from: 80% to 84.9%, \$1000 each year; 85% to 89.9%, \$1500 each year; and 90% or higher, \$2500 each year. No application is necessary.

Nursing Scholarships

Awarded to all students entering the B.Sc.N. program with an academic average of 80% or higher. These scholarships are awarded in addition to the National Renewable Scholarships and are renewable with the achievement of 80% in five full courses or equivalent each year. Scholarship values range from: 80% to 84.9%, \$500; 85% to 89.9%, \$1000; and 90% or higher, \$2000 each year. No application is necessary.

All University scholarships may be held in conjunction with scholarships awarded by outside agencies when the conditions of the latter permit. However, a student may not receive funds from more than one major Trent University scholarship in an academic year.

ENTRANCE AND IN-COURSE SCHOLARSHIPS

Many scholarships are available to students during their first and subsequent years of study. All students are automatically considered for scholarships. Unless specifically noted, these scholarships do not require an application.

Robert Annett Scholarship

Named in honour of Professor Robert G. Annett who taught Biochemistry at Trent University 1968–1998 and was Master of Otonabee College 1994–1998. His compassion and selflessness endeared him to colleagues, students and staff. The gift of the Annett family, friends and alumni. Normally awarded to an Otonabee College student majoring in Chemistry, preferably Biochemistry & Molecular Biology.

Bill Armstrong Scholarship

The gift of Daryl Bennett in memory of William (Bill) Armstrong of Orono. Awarded, on the recommendation of the co-ordinator of the Northern and Polar Studies program, to a student of high achievement and promise, entering the final year of an Honours program with an Emphasis in Northern and Polar Studies.

Bata Scholarship

The gift of Thomas J. Bata, one of the original honorary sponsors of the University and a member of the Board of Governors.

John Bernard Scholarship

Established by John Bernard, President of Donna Cona. Awarded annually to an outstanding Aboriginal student (First Nation, Métis or Inuit) who has completed at least one year at Trent and whose work contributes to the wise use of technology within Aboriginal communities.

Janet Bews Scholarship in Alzheimer Disease and Related Dementias

Established by the Alzheimer Society of Peterborough and Area in memory of Professor Janet P. Bews, a member of the Trent Classics department from 1966–99 and a strong advocate for the Alzheimer Society. Awarded to a fourth year student enrolled in the Trent/Fleming Nursing program and showing a career interest in nursing care for persons with dementia. Selection is based on academic merit and an essay and interview application process.

Binney & Smith Scholarship

Established by Binney & Smith (Canada) Ltd. of Lindsay. Awarded to students in the Queen's-Trent Teacher Education program..

Biology Department Scholarship

Awarded to a student of high academic achievement and promise entering the third or fourth year of the Biology program.

Julian Blackburn College Principal's Scholarship

Awarded to a student enrolled in the part-time credit program, who has completed at least five full courses or equivalent as a part-time student at Trent, and who has demonstrated high overall academic achievement.

Maurice Boote Scholarship

Established in honour of Maurice J. Boote, one of the founding faculty members of Trent University and the first chair of the Economics department. Awarded to an outstanding student entering the fourth year of the Honours program in Economics.

Winifred Elizabeth Burton Scholarship

A scholarship of \$1,000. Awarded to an outstanding student entering first or a higher year.

Cyril and Jenny Carter Scholarships in Environmental Studies

Awarded to a student of high academic achievement and promise entering the second, third or fourth year of the Environmental Science/Studies program.

Cyril and Jenny Carter Scholarship in Mathematics

Awarded to a student of high academic achievement and promise entering the second, third or fourth year of the Mathematics program.

Anthony Cekota Scholarships

Established to honour Anthony Cekota, a self-made man who edited and published a chain of magazines and newspapers in his native Czechoslovakia and also authored several books and papers on problems of industrial management and sociology, continuing as a consultant and advisor on industrial relations following his retirement after 45 years with the Bata Shoe organization. Awarded to students demonstrating exceptional academic performance.

Sylvia Cherney Scholarship

The gift of the late Harry Cherney and of Brian Cherney and Lawrence Cherney, is named in memory of Sylvia Cherney. Awarded to in-course students majoring in English Literature with the aim of encouraging promise and interest in the study of drama.

Children of Alumni Scholarship

Established in 1987 to recognize that the second generation, the children of our alumni, was at hand. To qualify, at least one of the applicant's parents must have graduated, received an honorary degree from Trent University or completed five or more courses at Trent.

City of Kawartha Lakes Scholarship

Established by the Town of Lindsay. Awarded to an entering student of high academic achievement from the City of Kawartha Lakes, who has also demonstrated peer leadership in the school setting and involvement in community affairs.

Cranston Scholarship

This scholarship, a gift of alumnus/a John and Mary Cranston. Awarded to a current Trent student who has demonstrated considerable academic improvement while at Trent.

Howard Darling Scholarship

Established in honour of Howard Darling, Supervisor, grounds and custodial services. Awarded to an upper-year student who has demonstrated excellence in Environmental & Resource Studies.

Roscoe F. Downey Scholarship

The gift of the late Roscoe F. Downey of Peterborough. Awarded to an entering student from Peterborough or Victoria County.

William Paxton Eastwood Scholarship

The gift of the late William Paxton Eastwood, a former citizen of Peterborough and Ocala, Florida. Awarded in recognition of academic excellence.

Roy L. Edwards Scholarship

Established in honour of Roy L. Edwards, one of the founding faculty members of Trent University and the first chair of the Biology department. Awarded to an outstanding student entering the fourth year of the Honours program in Biology, with the aim of encouraging promise and interest in the study of freshwater ecology.

Department of English Literature Scholarship

The gift of the English Literature department. Awarded to the best student entering the fourth year of the Honours program in English Literature.

Ewing Memorial Scholarships and Honours Awards

The gift of the late C.W. Ewing, a native of Warkworth, Ontario. Awarded to students entering the University and for Honours students undertaking a fourth year of study.

Faculty Scholarship

The gift of a member of the founding academic staff of Trent University. Awarded to an entering student living in residence.

Reginald R. Faryon Scholarships

The gift of the Quaker Oats Company of Canada, in memory of the late Reginald R. Faryon, a former president of the company, and an active member of the founding board of Trent University.

Eugene Forsey Scholarships

Named in honour of Senator Eugene Forsey, a former Chancellor of the University and a member of the Board of Governors for 10 years. Awarded to outstanding students proceeding towards a degree in Business Administration.

Robert M. Fowler Scholarship

The gift of the Quaker Oats Company of Canada in memory of the late Robert M. Fowler, a former member of the Board of Directors of Quaker Oats, and of the Board of Governors of Trent University. Awarded to a student in the Business Administration program or to one undertaking policy studies in other appropriate university departments.

Rufus Gibbs Scholarships

The gift of the late Rufus C. Gibbs. Awarded to students in all years, on the basis of academic standing, all-round achievement and character.

John Gilchrist Memorial Scholarship

Named in memory of John Gilchrist, a distinguished medieval scholar who taught at Trent. Awarded to an upper-year student with a single or joint major in one of Ancient History & Classics, Canadian Studies, Cultural Studies, English, History, Modern Languages or Philosophy.

Joseph Ernest Goodhead Scholarship

The gift of an anonymous donor, of the value of \$100. Awarded for excellence in the study of biology.

Hector and Geraldine Elizabeth Gray Scholarships

The gift of the late Hector and Geraldine Elizabeth Gray. Awarded to students entering the third year of a Bachelor of Arts program.

Peter Gzowski Northern Scholarship

This scholarship was established by the law firm Heenan Blaikie and by his friends across Canada, to honour the late Peter Gzowski, the eighth Chancellor of Trent University. This scholarship has a focus on students from the north and those studying northern issues.

The F. A. Hagar Scholarship

Established in 1988 by the friends and colleagues of Professor Hagar to mark his retirement from the History department at Trent University. Assists a recent graduate of Trent University to pursue further studies at an accredited post-secondary institution in the British Isles or India in the fields of British or Indian History or English Literature.

Brian Heeney Scholarship

Established as a memorial by Brian Heeney's family, friends and colleagues. Awarded to an outstanding student entering first year.

Heritage Scholarship

This scholarship honours the Curtis and Milburn families, both of which settled very early in the Peterborough area and have contributed continuously to its development. It is awarded to an outstanding student entering the final year of the Honours program in English literature.

George Henry and Jane Laing Howson Scholarship

The gift of the late Miss A. Howson and the late Mrs. M. H. Simpson, in memory of their late parents. Awarded to a student with high academic standing who is proceeding to the degree of Bachelor of Arts.

Richard B. Johnston Scholarship

Donated by the family of Professor Richard B. Johnston of the Anthropology department in his memory. Awarded to a deserving student in North American archaeology.

Francis Dean Kerr Scholarship

The gift of the late Mrs. F. D. Kerr of Peterborough, in honour of her late husband who was one of the original honorary sponsors of the University.

Margaret Laurence Scholarship

Named in honour of the late Margaret Laurence, a former Chancellor of the University. Awarded for outstanding achievement in the fields of Canadian literature or Canadian studies.

Lodge Physics Scholarships

Named in honour of the founding chair of the Physics department. Awarded to the best student in the introductory Physics course who is continuing in a program leading to a single- or joint-major in Physics, Chemical Physics or Computing & Physics; and the best student in each of the second and third years who is entering the next year of a single- or joint-major program in Physics, Chemical Physics, or Computing & Physics.

Marys' Fund Scholarship

Established in honour of Mary Margaret (Stuart) Beattie and Mary Marjorie (Murphy) Beattie, respectively the late mother and late wife of the donor, David Beattie. Awarded to an outstanding student entering the final year of the Honours program in Philosophy.

Dr. Ross Matthews Scholarship

Established in honour of the late Dr. Ross Matthews. Awarded to an entering student for demonstrated academic excellence.

Ralph McEwen Scholarships

Established in honour of the late Ralph McEwen. Awarded to students who are undertaking courses in Canadian literature or Canadian social history.

Jean McKerracher Scholarship in Biology

Awarded to one or two outstanding student(s) entering the fourth year of the Honours program in Biology or Biochemistry & Molecular Biology, with the aim of encouraging promise and interest in a career in health services.

The Bank of Montreal Scholarship

Established by the Bank of Montreal. Awarded annually to an undergraduate student who combines high academic standing and community involvement.

Robin Morris Scholarship

Established by her family and friends, in memory of Robin Morris '91. Awarded annually to a student in the Business Administration program whose spirit, enthusiasm and commitment to Human Resource Management is considered to be outstanding.

Mr. Sub Scholarship

Awarded to a student in any year of the Business Administration program or the Economics program who combines high academic standing and community involvement.

Justice Samuel H. Murphy Scholarship

This scholarship was established by friends, colleagues and family members to honour and remember Mr. Justice Samuel H. Murphy. The scholarship is awarded to an upper year student in Canadian politics and political theory.

William Allan Newell Scholarship

The gift of the late Judson Newell of Prescott, in honour of his father, the chairman and founder of the Newell Manufacturing Co., Ltd. Awarded to an entering student proceeding to the degree of Bachelor of Science.

Robert J. D. Page Scholarship in Environmental & Resource Studies

Established by Dr. Robert J.D. Page who was associated with the ERS program from its beginning. Awarded to a student entering fourth year who best combines academic achievement and public environmental service.

Quaker Oats Company of Canada Limited Scholarships in the Humanities

Established by the Quaker Oats Company of Canada Limited. Two scholarships awarded to deserving students entering the fourth year of an Honours degree in humanities.

J. J. Robinette Scholarships

Established by friends and colleagues to honour the 60th anniversary of Dr. J. J. Robinette's call to the Bar. He was a member of the Trent's first Board of Governors, and Chancellor of the University from 1984 to 1987.

Peterborough Examiner Scholarship

The gift of the Peterborough Examiner Co. Ltd. Awarded to an outstanding student entering first or a higher year and living in residence.

Helen and Barney Sandwell Scholarship

The gift of the distinguished Canadian publisher, B. D. Sandwell, a long-time member of the Trent Board and its chair from 1971 to 1975, and of his wife Helen. Awarded to an outstanding student majoring in English literature entering the third year of a degree program in English.

Frank and Reata Scott Scholarship

The gift of the late Helen Whiteside in memory of her parents. Awarded to a student entering the third year of a Bachelor of Arts program and renewable in the fourth year provided that the student maintains a scholarship standing of 80%.

Katherine E. Scott Scholarship

The gift of the late Dr. C. M. Scott of Peterborough, in honour of his late wife.

William Bligh Shaw Scholarship

The gift of Muriel Beatrice Shaw. Awarded to an outstanding student entering the first year of the Business Administration program.

Shoppers Drug Mart Scholarships

The gift of Imasco Ltd. Awarded to students of high academic achievement entering first or a higher year in the University.

H. Clare Sootheran Scholarship

The gift of the late H. Clare Sootheran of Peterborough. Awarded for excellence in the Faculty of Arts.

Ian Stonehewer Memorial Scholarship

The gift of Mr. and Mrs. John Stonehewer in honour of Ian Stonehewer, B.A. Honours 1975. Awarded for excellence to a student entering the fourth year of the Honours program in History.

Carolyn Sarah Thomson Scholarship

Established by the late Carolyn Sarah Thomson, a Trent alumna who was intensely loyal to Trent and to the people – faculty, staff and students – who make the University unique. Awarded for excellence to a student entering the third year of the Canadian Studies program.

Trent University S & A Scholarship

Two scholarships, of the value of \$500 each, the gift of the employees of Trent University. Awarded to students entering the University from schools of the Public or Separate Boards of Peterborough or Victoria County on the basis of academic standing and all-round achievement and character.

City of Trenton Scholarship

Established by the Corporation of the City of Trenton. Awarded to an entering student from the city of Trenton.

Zoom Media Scholarship

This scholarship is awarded to a fourth year student with a high academic standing and an entrepreneurial spirit in the Business Administration program.

EXTERNALLY AWARDED SCHOLARSHIPS

A number of scholarships (and bursaries) are awarded by organizations outside the University. Several corporations, for instance, have special programs for dependents of their employees. Students should consult their guidance counsellors concerning these awards.

John Brooks Community Foundation Scholarship

An entrance scholarship of \$1,500. Awarded each year by the John Brooks Community Foundation and Trent University to an entering student from a visible minority who combines high academic standing with involvement in school and/or community service. Applications are available by web @www.johnbrooksfoundation.org

Queen Elizabeth II (Aiming for the Top) Scholarship

This renewable scholarship ranges from \$100 to \$3500 per year. It is an initiative of the Ontario government to recognize and reward outstanding academic achievement. It is applicable to first year students who have graduated from high school in 2004. Deadline date is mid-June 2004. The scholarship application is part of the OSAP application package, either on-line at www.osap.gov.on.ca or in booklet form.

Millennium Scholarship

The Millennium Excellence program recognizes, supports and encourages talented Canadians who make positive and significant contributions to the betterment of their communities, demonstrate leadership skills and commit themselves to academic excellence. Three levels of scholarships: local winners receive a one-time \$4000 scholarship, Provincial winners receive \$4000 scholarship, renewable up to three times, and National winners receive \$4800 scholarship, renewable up to three times. Students must be entering their first undergraduate year of post-secondary studies. Deadline date for application is mid-January, 2005. Applications may be obtained from Ontario high school guidance offices in late Fall, and on-line at www.millenniumscholarships.ca.

INTERNATIONAL SCHOLARSHIPS

The following scholarships are available for international visa students. They require a letter of application to the Trent International Program accompanied by an application for admission to Trent University, certified transcripts, certified evidence of proficiency in English (see *English language requirements under Regulations*) and three letters of reference (including two from current or former teachers). For scholarships designated for United World Colleges or advertised through Canadian Education Centres abroad, application should be made directly to the appropriate United World College or Canadian Education Centre.

Holders of renewable scholarships must remain in good academic standing for their scholarships to be renewed.

Tom Nind International Scholarship

Named in honour of the late Tom Nind, Trent University's second President. Awarded each year to the international scholar with the highest academic standing on entry to the University. It carries an additional one-time award of \$500.

Trent International Program Full Scholarships

Based on high academic achievement, community and/or international service and an assessment of financial need, these renewable scholarships cover at least international tuition fees and ancillary fees and, depending on need, they may include residence, health insurance, a book allowance and some living expenses for the eight-month academic year. Preference is given to students from developing countries and Eastern Europe who could not otherwise afford to study in Canada.

Jack Matthews International Scholarship

Named in honour of Jack Matthews, the founding Director of both Pearson College of the Pacific and the Trent International Program. Awarded each year to an international student entering Trent University from Pearson College of the Pacific. Based on high academic achievement and an assessment of financial need, selection for this renewable scholarship places special emphasis on outstanding community and/or international service. It covers international tuition fees, ancillary fees, residence and, depending on need, health insurance, a book allowance and some living expenses for the eight-month academic year.

International Tuition Scholarships

Based on high academic achievement, community and/or international service and open to all non-Canadian students or residents (or, in some cases, designated nationals), these renewable scholarships cover international tuition fees.

TIP Tuition Levy Scholarship

This renewable scholarship is funded by the students of Trent University through an annual levy. Based on high academic achievement and a strong record of community and/or international service, a TIP Tuition Levy Scholarship. Awarded each year to a student from a developing country. It covers international tuition fees and ancillary fees.

Singapore International Chamber of Commerce and Richard Hua Foundation Scholarships

These renewable scholarships, the gift of the Singapore International Chamber of Commerce. Awarded to citizens of Singapore in recognition of outstanding academic and extracurricular performance. They cover international tuition fees, residence and travel. Application is through the Singapore International Chamber of Commerce.

Medals

Governor-General's Medals

The gold medal is awarded to the graduate student with the highest standing on graduation and the silver medal is awarded to the student with the highest standing on graduation with an Honour's degree.

President Symons Medals

Established in 1972 in honour of T.H.B. Symons, the founding president of Trent University. Awarded to students in the Honours program who achieve high overall standing on graduation.

Professor Gilbert Bagnani Medals

Established in 1986 to honour the late Professor Gilbert Bagnani, one of the founding faculty members of Trent University. Awarded to graduating students in the General program who achieve high overall standing.

Prizes

Ambassador of Switzerland Prizes in French and German

The gift of the Ambassador of Switzerland. Awarded to the undergraduates who have obtained the highest standings in the French and German languages in their graduating year.

Anthropology Society Prize

Awarded to the most outstanding *Anthropology 100* student on the basis of tutorial work and overall marks.

Sir Donald Banks Prize

The gift of Professor D. L. Smith, in memory of her father. Awarded annually to a returning student who shows outstanding achievement upon completion of the Year Abroad program.

Bruce Barrett Memorial Prizes

Established in memory of Bruce Barrett, a former Trent Philosophy student. Several prizes awarded to outstanding students in first-year courses in Philosophy. Approximate value \$100 each.

Bigwin Memorial Award

Awarded on behalf of Elizabeth Bigwin to an Aboriginal student in *Native Studies 260* who not only demonstrates academic excellence, but also contributes to the well-being of the community at Trent or the community at large.

Department of Biology Prizes

Awarded to students who show excellence in the study of Biology in first or higher years.

Biology Undergraduate Thesis Award

Awarded in recognition of the highest achievement in the Biology research thesis.

Botany Prize

Awarded annually to a second or third year student who shows excellence and promise in plant biology.

Breukelaar Prize in Laboratory Physics

Established in recognition of the many years of service of Senior Physics Demonstrator John Breukelaar. Awarded to the student displaying the highest academic standard in senior laboratory courses in physics.

Gordon Campbell Memorial Award

In memory of Gordon Campbell, a former Trent Geography student, one award is given to a third- or fourth-year undergraduate student in a single- or joint-major program in Geography with a demonstrated and continuing interest in the Canadian North.

Canadian Association of Geographers' Undergraduate Award

Established by the Canadian Association of Geographers. Awarded each year to the Honours Geography student at Trent who is judged to have the best academic record in fourth year.

Canadian Scholars' Press Award

Awarded for outstanding achievement in *Anthropology 240*.

Robert Chambers Prize

Established in 1996 to honour Professor Robert Chambers on his retirement. Awarded to the best student graduating from the Honours program in English Literature.

Donald Chase Memorial Prize

Established in memory of Donald Chase, a Trent student in 1989. Awarded for the best essay in Canadian history written by a first-year undergraduate at Trent.

William B. Common, Q.C., LL.D. Memorial Prize

Awarded to the student achieving the highest academic standing in first-year (Canadian) Macroeconomics.

Computer Studies Prize

Awarded to the outstanding student(s) graduating from a joint-major program in Computer Science/Studies.

Consul General's Prizes in French

The gift of the Consul General of France. Awarded to the leading undergraduates in French Studies within the University.

CRC Press Freshman Chemistry Achievement Award

A gift of a copy of the CRC Handbook of Chemistry and Physics from the CRC Press Inc. Awarded to a student at the end of first year on the basis of outstanding academic achievement in Chemistry.

James Creery Memorial Essay Prize

Established in memory of James Harold Creery, a Trent student of Philosophy in 1972-74. Awarded for the best philosophical essay written by an undergraduate at Trent.

Cultural Studies Faculty Prize

Established in 1988 through contributions from the Cultural Studies faculty. Awarded to a Cultural Studies major or joint-major for the best essay of a critical or theoretical nature related to the subject areas of the Cultural Studies program submitted to a juried competition held by the program. Value \$300.

Currie Honours Awards

Awarded to students enrolled in *Geography 401* or *402* in the Winter session on the basis of both academic achievement and proposed thesis research. A total prize of \$1000 is divided among up to three selected winners.

J. Emmett Duff Memorial Prize in Geography

The gift of Professor T. H. B. Symons, Celanese Canada Inc. and John D. Stevenson QC, in memory of the late J. Emmett Duff, who, without formal training in the subject, was possessed of an intense love of traditional geography. A prize of \$100 is awarded to the Geographer in their third or fourth year who maintains a standing of at least 70% average in all Geography courses and who best epitomizes the spirit of cartophilia.

Department of Economics Prize

A gift of the Economics department. Awarded to the student achieving the highest academic standing in first-year Microeconomics.

Elders Text Prize

This prize was established by the Aboriginal Education Council from the royalties of the text *In the Words of Elders* by Professors Kulchyski, McCaskill and Newhouse. The prize(s) are awarded to students of Aboriginal ancestry in a program of study at Trent on the basis of achievement, community contribution and financial need.

Embassy of Spain Prize in Hispanic Studies

Awarded to an outstanding student in upper years majoring in Spanish.

Environmental & Resource Studies Program Prize

A gift of the ERS program. Awarded to a first-year student achieving the highest academic standard in the first-year ERS course.

Timothy Findley Creative Writing Prize

Established in honour of Timothy Findley. Awarded on the basis of adjudicated submissions of fiction, poetry, drama or creative non-fiction for creative writing of special merit:

Marjorie Elizabeth Foster Prize

Given in memory of Marjorie Elizabeth Foster. Awarded to the student who writes the best essay or research project in historical geography in a particular year in any Geography course.

French Studies Staff Prizes

Awarded by members of the French Studies section to outstanding students of first-year French Studies.

French Studies Staff Prize (Nantes program)

Awarded by members of the French Studies section to the outstanding participant in the Nantes Year Abroad program in French Studies.

Gregory R. Frith Memorial Prize in Cultural Studies

Established in honour of the late Gregory R. Frith, B.A. Honours 1977. Awarded to a Cultural Studies major or joint-major for the best submission in any of the arts associated with the Cultural Studies program to a juried competition held by the program. Value \$300.

Honourable Leslie Frost Prize

The gift of the late Hon. Leslie M. Frost, PC, Premier of Ontario from 1949 to 1962 and first Chancellor of Trent University. Awarded to the leading undergraduate in the first-year course in Canadian history.

Gadfly Prizes

Awarded to an outstanding undergraduate in Philosophy in each of the second and third years. The prizes commemorate Socrates' description of himself as one who rouses and reproves the society in which he lives just as a gadfly awakens a sluggish horse.

Louise Garrow Prize

Established to honour the contribution of Louise Garrow to the Native Studies program. Awarded to a student in the program demonstrating high academic achievement and contribution to student life.

Department of Geography Prizes

Awarded in the first and second year to students who show excellence in the study of geography. The second-year prize, known as the Geography alumni prize, is donated by the Trent University Geographical Society using funds contributed by Geography alumni.

Founders' Prize in Geography

This prize was established in recognition of the founders of the Trent University Geography department, Professors Peter Adams and Fred Helleiner. It is awarded to the best "all around" Geography major or joint-major. Nominations will be judged on the basis of academic ability, individual or group initiative, and enthusiasm or creativity or innovation related to the pursuit of their education in Geography. Active participation in TUGS will be considered an asset to the candidate's eligibility.

Guinand Prize

Established, in honour of the first chair of the Mathematics department. Awarded to a student of high promise in the Mathematics program, normally on entering the fourth year of the Honours program.

Graham Hartley Prize

Established by the Chemical Institute of Canada (Peterborough Section) in honour of Graham Harry Hartley, Ph.D., M.C.I.C. Awarded to first and second year students who have shown excellence in the field of general chemistry.

Honourable George S. Henry Prize

Established in memory of Hon. George S. Henry, Prime Minister of Ontario from 1930 to 1934, and Member of the Legislative Assembly of Ontario for East York from 1913 to 1943. Awarded to the leading undergraduate in the first-year course in Political Studies.

John Hillman Prize

Established to honour the former chair of the program for his years of leadership. Awarded to the student with the highest standing in fourth year International Development Studies.

Linda Hubbell Book Prize

Named for Anthropology and Women's Studies professor Linda Hubbell and originally endowed by the Peterborough Women's Committee. Awarded based on academic achievement as well as contributions to the vitality of the program.

Arnold Hyson Prize in Maritime Studies

Awarded to the student with the most outstanding research paper in *Canadian Studies – History 307*.

Innovation in Teaching Prize

The Innovation in Teaching Prize will be awarded annually to a candidate in each of the following: Primary/Junior divisions; Intermediate/Senior divisions; Part Time program (Final year). Based on innovation in teaching and learning demonstrated in classroom placement.

David Sutherland Irwin Prize

Established in memory of the late Professor David Irwin. Awarded on completion of *Chemistry – Biology 330* to a student with outstanding performance in biochemistry.

P. K. Page Irwin Prize

Established by the family, friends and admirers of P. K. Page Irwin to honour her extraordinary achievement in the arts. Awarded to a student who has shown special merit in creative writing and at least one of the other arts.

Ronald G. Johnson Prize in Quantum Mechanics

Established by his former students and colleagues in recognition of the more than three decades of Dr. Johnson's teaching in Physics. Awarded annually to the student with the highest academic achievement in the fourth year course in Quantum Mechanics.

Richard B. Johnston Memorial Prize

Donated by the family of Professor Richard B. Johnston of the Anthropology department in his memory. Awarded to a deserving student in Ontario archaeology.

K. E. Kidd Memorial Awards

Awarded each year to graduating students who have demonstrated the highest degree of ability and achievement in the Diploma program of the Native Studies department.

F. Alan Lawson Memorial Prize

Sponsored by the Central Ontario Chartered Accountants Association. Awarded to the student majoring in the Business Administration program, who achieves the highest combined mark in fundamentals of financial accounting and fundamentals of management accounting (*Administration 102* and *202H*).

Margaret Lightbody Prizes

Established in honour of Margaret Lightbody ('64), a local area retired Mathematics teacher who has had a remarkable impact on the lives of her students. A member of Trent's original graduating class, she served on the Board of Governors (1993-1996). Awarded to students in the School of Education and Professional Learning and in the Queen's Trent Concurrent Education program during third or fourth year majoring either in Mathematics (single or joint) or with Mathematics as an elected teaching subject, who demonstrated exceptional skill, enthusiasm and promise in classroom teaching and who maintained at least a B- average in mathematics courses.

Helen E. MacNaughton Prize

Awarded to an outstanding student in Philosophy entering fourth year.

J. Percy MacNaughton Prize

Awarded to the student achieving the highest academic standing in Environmental & Resource Science/Studies entering the fourth year.

Edna Manitowabi Prize

The Edna Manitowabi Prize is associated with the performance element of academic work initiated by Professor Edna Manitowabi. Aboriginal students enrolled in Native Studies classes which include the performance element are eligible for the prize. The prize winners will be chosen based on grades, participation and excellence in their contribution to performance activities.

Makhija Prize in Chemistry

The gift of R & R Laboratories. Awarded to the student with the best overall performance in 300-level courses in Chemistry.

McColl Turner Prize in Accounting

Presented by McColl Turner, Chartered Accountants, to an undergraduate student in *Administration 320*, who has demonstrated exceptional promise and enthusiasm for the study and dissemination of the principles and practices of accounting.

David N. McIntyre Conservation Award

Awarded by the Otonabee Region Conservation Authority to the outstanding Geography student who has demonstrated an interest in conservation.

Jane McLarty Memorial Prize

Established in memory of Jane McLarty, a member of Lady Eaton College from 1987-1990.

Awarded to a deserving student entering the third or fourth year of studies in English Literature.

Heather J. Glendinning McMurter Memorial Award

Established in memory of Heather J. Glendinning McMurter who graduated with a B.Sc. from the Environmental Studies program in 1988. Awarded to a student entering the fourth year (having completed 15 courses) of the Environmental & Resource Science/Studies program whose research paper in at the 300- or 400-level is judged to be the best of the year.

Midwives' Prize

The gift of three members of the Universities Liaison Committee who assisted at the birth of Trent University. The late Professor J.M. Blackburn, then of Queen's University; the late Dean Frank Stiling, then of the University of Western Ontario; and the late Dr. M. St. A. Woodside, former vice-president of the University of Toronto, were named by their universities to act as a liaison committee between these three universities and the Founding Board of Trent University. Awarded to the student with the highest overall standing in the first year.

Joyce Miller Prize

Awarded annually in recognition of a student majoring in Native Studies who, while maintaining an excellent academic profile, contributes in a significant way to the non-curricular social, cultural, spiritual and/or political life of the department.

Norma Miller Essay Prize

Administered jointly by Catharine Parr Traill Collège and the department of Ancient History & Classics, these prizes honour the memory of Norma P. Miller, an honorary fellow of Traill and frequent visitor to the Classics department. Awarded to the best essay in each of three competitions, one in *Classical Literature 100*, one in Roman History and a paper at the 400-level.

Joyce Moonias Memorial Awards

Donated by Frances Six in memory of Joyce Moonias, Native Studies student 1982-83, are offered to the student with the highest academic standing in *Native Studies 280* and *380* (Ojibway language).

Garnet Morris/Sun Life Prize

Awarded in recognition of a student who best demonstrates academic excellence and is completing the second year Native Studies major with a Specialization in Native Management & Economic Development.

W. L. Morton Essay Prize in History

Awarded to the second- or third-year student writing the best essay.

National Council for Geographic Education Excellence of Scholarship Award

Awarded to the outstanding graduating Geography major.

Native Studies Award

Established in memory of Harvey G. Greene of Peterborough. Awarded to outstanding students in Native Studies.

Seth Newhouse Prize

This award, established by his great grandchildren to honour the memory of Seth Newhouse, Six Nations activist and historian, is presented to the student with the highest academic standing in *Native Studies 255 – History of the Indians of Canada*.

Oak Ridges Trail Association (ORTA) Trail Studies Prize

A prize of \$500. Awarded to a deserving student in fourth year of Honours Geography program who is conducting research that pertains to the Trent-Fleming Trail Studies Unit.

Organic Chemistry Prize

Awarded to a student who has demonstrated substantial improvement in the field of organic chemistry, normally on completion of *Chemistry 310*.

Pammett Historical Prize

Established by the late Howard Pammett (1909-1993), in honour of his parents, Robert and Ruby Pammett. Awarded, when merited, for the best student research essay on the history of the Kawartha District (defined as including the Counties of Peterborough, Victoria, Haliburton, Northumberland, Clarington and the Algonquin Region). The recipient will be chosen by the chair of the History department.

Peace Hills Trust Prize

A prize of \$500. Awarded to the top Aboriginal student, in terms of academic achievement, completing the second year of the Native Studies program with a Specialization in Native Management & Economic Development.

Peterborough Historical Atlas Foundation Prize

Awarded to the undergraduate whose essay or project on a Canadian subject is deemed outstanding. An interdisciplinary panel will select the winner from the entries submitted by faculty in appropriate disciplines.

Peterborough Professional Engineers Wives' Association Prize

A gift of the Peterborough Professional Engineers Wives' Association. Awarded to an undergraduate who shows excellence in 200-level courses in Physics or Chemistry.

John Pettigrew Prizes

Established in memory of the late Professor John Pettigrew. Awarded for the best student essays submitted by students in a first-year English course taking the course among their first five credits.

Department of Physics Prize

A gift of the Physics department. Awarded to the student achieving the highest academic standing in the first-year Physics course.

Powles Prize

Given in honour of Percival M. Powles, long time member of the Biology department. Awarded to a student entering the fourth year of the Biology program who has demonstrated excellence in the area of fisheries and aquatic sciences.

Andrew Priestman Memorial Prize in Political Studies

A book prize established in honour of the late Andrew Priestman, Honours B.A. 1991. Awarded to a graduating student in Political Studies who has maintained a solid academic achievement and made an above-average contribution to student life and the activities of the Political Studies department. Students and faculty are encouraged to make nominations.

R & R Laboratories Prize in Analytical Chemistry

The gift of R & R Laboratories. Awarded to a student with outstanding performance in analytical chemistry on completion of a 300-level course in chemical analysis.

Department of Psychology Prizes

A gift of the Psychology department. Awarded to outstanding students in Psychology.

Victor T. Ridley Memorial Prize

The gift of Mrs. F. Millard in memory of the late Victor T. Ridley of Peterborough. Awarded to the leading undergraduate in first-year Mathematics.

J. J. Robinette Prize

Awarded in honour of the late Dr. John J. Robinette, an eminent constitutional and criminal lawyer, and Trent University's fifth Chancellor. Awarded to the scholastically outstanding graduate of Trent University in any year who undertakes the study of law at another Canadian university.

Otto Roesch Memorial Prize

Established in memory of the Late Professor Otto Roesch (Anthropology). Awarded to the outstanding student in Anthropology 399, Theories of Society and Culture. This prize recognizes the contributions of Professor Roesch and his research interests in cultural anthropology.

Barbara Rooke Prize

Established in memory of the late Professor Barbara Rooke. Awarded to the best student in a 200- or 300-level course in the Romantics.

J. Paul Scott Jr. Memorial Prize

Established in memory of J. Paul Scott Jr. Awarded to a deserving student enrolled in *Psychology 401 or 402* (Honours thesis).

Denis Smith Essay Prize

The gift of the Political Studies department. Awarded each year to a fourth-year student submitting an outstanding essay in Political Studies.

Honourable Sidney Smith Prize

Named in honour of Hon. Sidney Smith, Member of the Legislative Assembly of the United Province of Canada from 1854 to 1861, Postmaster General of the United Province of Canada from 1858 to 1862, and elected Member of the Legislative Council from 1861 to 1863. It is the gift of Hon. S. Bruce Smith, Chief Justice of Alberta, and of Muriel Turner and H.G.H. Smith, QC, of Winnipeg. Awarded to the leading undergraduate majoring in Political Studies and History in the second year.

Society of Chemical Industry Student Merit Award

Awarded to the student having the highest standing in the final year of his or her course. The student must have a minimum average of 75% and have completed the course in the normal number of years.

Society of Management Accountants Prize

Awarded to the student proceeding to fourth year in the Business Administration program who has achieved the highest overall standing in all accounting subjects.

Sophia Prize

Established in 1999 to honour Professor Robert Carter on his retirement. Awarded to an outstanding third or fourth year student who best exemplifies philosophy as the love of wisdom.

Soroptimist International of Peterborough Prize

Presented by the Soroptimist International of Peterborough, a service club for business and professional women. Awarded to an outstanding female student entering her final year of the Honours program in Women's Studies.

Gillian Stamp – Friends of Field Hockey Prize

Awarded to the player, selected by her teammates who, continually demonstrates dedication, commitment and loyalty to her team both on and off the playing field. Through leadership, fair play and enthusiasm, she is an inspiration to her teammates in their pursuit of field hockey and academic excellence.

Robert W. F. Stephenson Prize

Established by the Alumni Association to honour the first alumnus to chair the Board of Governors. The \$250 prize recognizes a student who has demonstrated excellence in contribution to student governance.

Symons Essay Prizes in Canadian Studies

Established through a gift from T. H. B. Symons, the founding president of Trent University, to recognize excellence in performance in courses of the Canadian Studies program. Four prizes are awarded for outstanding essays in first-, second-, third- and fourth-year courses.

Berna Theobalds Prize

Established in memory of an exceptional resident of Peterborough. Awarded to the student with the highest standing in *International Development Studies 200*.

Norman Townsend Prize in Anthropology

Established in memory of the late Professor Norman Townsend. Presented by the Anthropology department on the basis of high academic standing to a student pursuing studies in cultural anthropology.

Trent Science Fair Award

An award of \$100. To be applied against first-year tuition fees, is offered to a senior secondary school student whose project is judged outstanding at the annual Peterborough Regional Science Fair.

Harold F. VanDusen Prize

Awarded to the student completing the third year of the Economics Honours program who has demonstrated exceptional promise and enthusiasm for the study and dissemination of the principles and practices of economics.

Verduyn Book Prize

Awarded to the student who achieves the highest standing in the course "Canadian Women's Writing."

Rodney F. White Memorial Prize

Two prizes of \$100 each. Awarded by the Sociology department to majors who demonstrate excellence in the study of sociology.

Alan Wilson Prize in History

Awarded to the Honours History student achieving the highest standing in fourth year.

COLLEGE PRIZES**Peter Robinson College Prizes**

Three prizes awarded to the continuing College students with the highest academic standing during each of the first, second and third years of their academic programs.

Peter Robinson College Fellows' Prize

Awarded on the basis of overall academic standing to a graduating student in the fourth year of an Honours program.

Robert Lightbody Prize

Established by the Alumni Association to honour the contributions to the University of alumnus Robert Lightbody, a member of Trent's first class. Awarded to an upper-year Peter Robinson College student.

Catharine Parr Traill College Scholar

The title of College Scholar is conferred upon the student in his or her graduating year who has achieved academic excellence and who has also made an all-round contribution to the College.

Catharine Parr Traill College Principal's Prize

Awarded to the Catharine Parr Traill College student with the best academic performance in the freshman year.

Champlain College Master's Prize

Awarded to the graduating student of the College with the highest overall standing in fourth year, Honours.

Champlain College Fellows' Prize

Awarded to the graduating student of the College with the highest overall average in the third year, General.

Champlain College Senior Tutor's Prize

Awarded to the Champlain College student who has achieved the highest average at mid-year.

Christopher Greene Award

Established in honour of Christopher Greene, former senior tutor of Champlain College. Awarded to a graduating student within the College who has demonstrated considerable academic improvement while studying at Trent University.

John Rymes Book Award

A book prize awarded by the senior tutor of Champlain College to a student of the College who has benefitted most from a Trent University education.

Lady Eaton College Fellows' Prize

Awarded by the Fellows of Lady Eaton College to a graduating student of the College for academic excellence over his or her university career.

McCalla-Standen Award

Established in honour of two former principals of Lady Eaton College. Awarded to a first-year student of the College who has most distinguished him/herself through contribution to the College, the University or the wider community while maintaining a good academic average.

Marjory Seeley Prizes

Up to three prizes awarded in honour of the first Principal of Lady Eaton College to students of the College who have distinguished themselves in sports, academics, student government or College committees, or who have contributed to the College in such a way as to enrich its life.

Otonabee College Academic Leadership Award

Awarded to a student or students who had made an outstanding contribution to the academic life of the College and demonstrated commensurate leadership skills while doing so.

Otonabee College Excellence Award

Awarded to a graduating student who consistently combined academic excellence with participation in student government and active contribution to College life.

Otonabee College Senior Common Room Prize

Awarded to the Otonabee College student with the best academic performance in the freshman year.

Otonabee College Prize

Awarded to the Otonabee College student who has achieved the highest cumulative average in the first three years of a General or Honours program, and is on the Dean's Honours List at the end of the third year.

Bob Annett Prize

Awarded to the full-time student of Otonabee College whose academic performance is the most improved over the year. During his 30 years at Trent, Professor Annett was committed to encouraging students to reach their potential and to benefit to the fullest from their experience at Trent.

John Stubbs Prize

Created as a tribute to Trent University's fourth President. Awarded by the senior tutor to the full-time undergraduate student member of Otonabee College with the highest average at mid-year.

Eileen Gallagher Otonabee College Spirit Award

This prize, the gift of alumni, friends and family (and companion to the Scott Rennie Award) is awarded to a deserving female Otonabee College member.

Scott Rennie Otonabee College Spirit Award

The gift of alumni, friends and family (and companion to the Eileen Gallagher Award). Awarded to a deserving male Otonabee College member.

Julian Blackburn College Prizes

Two prizes awarded to Julian Blackburn College students who graduate with the highest academic standing in the Honours and General program.

Trent Alumni Summer Session Prizes

Two prizes, the gift of the Trent University Alumni Association. Awarded for outstanding academic achievement by Julian Blackburn College students in the on-campus and the Oshawa Summer session (including intersession).

INTERNATIONAL PRIZES**Exchange Award**

Awarded to an exchange or year-abroad student who has contributed significantly to the promotion of study abroad and to the international life of the University.

Fred Helleiner TIP/Temagami Prize

Awarded to an international student who has participated in the Temagami Canadian Studies field trip. The prize covers the cost of the registration.

Hulcoop Prize

Named in honour of Barb Hulcoop, a retired Trent staff member who opens up her home and her heart to international students. Awarded to a first-year student in recognition of outstanding contributions to the international life of the University.

Jack Matthews Award

Named in honour of the founding Director of the Trent International Program who symbolizes international understanding in all his endeavours. Awarded to a graduating student to recognize outstanding commitment and contributions to internationalization, both locally and globally.

Karanja Njoroge Community Service Award

Named in honour of the second Director of the Trent International Program. Awarded to a student in recognition of his/her active involvement in development education both at Trent University and in the wider community.

Trent International Program Award

Awarded to an upper year student, usually in the graduating class, in recognition of substantial involvement in the Trent International Program and genuine devotion to the ideals of internationalization.

RESIDENCE

The Residential College

A key aspect of Trent's organizational structure is the residential college system. Full-time students are affiliated with one of the five residential colleges, whether they choose to live in residence or not. The colleges are the centre of academic and social activity, housing professors' offices, small lecture halls and seminar rooms. The colleges sponsor visits by scholars, writers and public figures, and organize lecture series, seminars, concerts, films and dances. Each college has its own student cabinet that coordinates additional student programs and activities, and each college has created prizes to honour academic excellence and contributions to the life of the college.

Application for Residence

New students who apply for full-time study at Trent receive a *Residence Application* with their offer of admission. New students with an 80% average or higher who submit the application by May 10, 2004 will be guaranteed residence accommodation. All new students are asked to complete and return the Application to Housing Services as soon as possible. Offers of accommodation for general applications will be processed on a first come first served basis. The application outlines choices as to the type of residence room the students would prefer (e.g. single, double) and the type of meal plan (flex or board). Residence preferences cannot be guaranteed, but students' requests are met wherever possible. Applications may be submitted by mail, fax or e-mail and must be accompanied by the \$20 Application Fee before they will be processed.

General inquiries concerning cost or the application process may be directed to Housing Services (748-1011, ext. 5127, or e-mail residence@trentu.ca).

Catharine Parr Traill College

Telephone: (705) 748-1011 ext. 1736

Fax: (705) 748-1721

E-mail: traill@trentu.ca

Web: www.trentu.ca/colleges/traill.html

See map of College, page 368.

Principal

M. A. Peterman, M.A, Ph.D. (Toronto)

Senior Tutor

S. L. Keefer, B.A., M.A., Ph.D. (Toronto)

College Don

T. Tkachenko, B.A. (Trent)

College Assistant

J. Stephenson

Named in honour of the noted author, botanist and pioneer settler of the Peterborough area, Catharine Parr Traill College is one of the founding colleges of Trent University. An integral part of the academic and social life of Trent University as a whole, Traill College is also a self-contained and active community, beautifully situated on a drumlin overlooking central Peterborough. In particular, the Humanities flourish on the Traill Campus.

For those who wish to be involved both with the University and the local community, Traill College is an attractive home. Regular and frequent bus service connects the College with the Symons Campus, while its central location gives easy access to the "Y," the Peterborough Public Library, art galleries, movie theatres, live concerts, churches, restaurants and pubs.

The College consists of a number of old houses of architectural and historic significance, and one relatively modern building, Wallis Hall. These buildings together provide residence accommodation, including some bachelor apartments, for almost two hundred students and for the College don, various student dons, and College visitors. Teaching offices, seminar rooms, and a lecture hall are also housed in the various College buildings. Only Kerr House is devoted solely to academic space. It houses the Canadian Studies undergraduate program and the Frost Centre (graduate-level Canadian Studies), several study rooms including the Alan Wilson Reading Room for Canadian Studies (which includes Margaret Laurence's library), and a microcomputer lab.

In addition to being the base for the academic departments of English, Cultural Studies and Canadian Studies, Traill has faculty members from most disciplines in the arts and social sciences. Two graduate programs in the Humanities and Social Sciences, the Frost Centre (Canadian Studies) and the Theory, Culture & Politics program (TCP), are also located at the College. It is

thus an active centre for teaching and learning, not only for resident students, but also for Traill's large number of non-resident students, many of whom live in the neighbourhoods surrounding the College. An international flavour enhances activities and learning at Traill College as it is home to students from over 30 different countries.

All Traill students are invited to participate in a variety of activities sponsored by the College, from book clubs and trips to Stratford, to coffee house performances in "The Trend". A *Mentoring program connects new students with experienced upper-year students. Study sessions* for specific academic areas are also organized through this group. Computer facilities in Scott House are available to all Traill students. The intellectual life of the College is supplemented as well by a thriving visitors' program organized by students and faculty. Members of the College have the opportunity to meet informally with writers, artists, professionals, politicians, musicians and scholars. Recent guests have included *Toronto Star* columnist Linwood Barclay, Dr. Margaret MacMillan, Canadian writers Barbara Gowdy, Charlotte Gray, Jane Urquhart, Frances Itani, Lawrence Hill, Alistair MacLeod, Dennis Lee and Bonnie Burnard, international development economist Dr. Amiya Kumar Bagchi, and Traill's 1999 Distinguished College Visitor in the Arts, Frank Augustyn, former Principal Dancer with the National Ballet of Canada.

The College's proximity to downtown Peterborough also allows Traill students to be actively involved in community cultural organizations such as the Peterborough Symphony Orchestra and Peterborough Theatre Guild, and in organizations working for social change, such as the Kawartha World Issues Centre and Amnesty International.

Active, responsible student involvement has always been a feature of the College's life. Traill students have assumed leadership roles in the University Senate and the Trent Central Student Association, and true to the College's character, have even campaigned in local politics. The College Cabinet, which is entirely student-run, plays an important part in organizing academic and social activities for residents and non-residents alike. Fall and Winter College weekends are much-anticipated, student-organized events. Facilities at their disposal include the College dining room (which is also used for movies, dances and concerts), The Trend snack bar and student-run pub, various common rooms, a basement games room in Scott House, and lounges for study and relaxation. The excellent facilities and quiet atmosphere of the College offer a comfortable working environment for both resident and non-resident students.

Champlain College

Telephone: (705) 748-1237

Fax: (705) 748-1581

E-mail: champlain@trentu.ca

Web: www.trentu.ca/colleges/champlain.html

See map of Symons Campus, p. 368.

Master

To be named

Senior Tutor

D. French, B.A, M.A, M.Div.

College Assistant

N. Flower

Champlain College, whose name honours the great explorer and founder of New France, lies on the banks of the Otonabee River near the heart of the Symons Campus. The College is widely acclaimed for its beauty and provides an appropriate setting for the casual and formal activities of college life.

The centre of the College is the impressive Great Hall and its adjacent common rooms. The two residential quads are divided into staircases with five single study-bedrooms clustered on each floor. Although the residence is co-educational, one section is reserved as women's residence. Tutorial offices for faculty fellows, dons' residences and seminar rooms are interspersed throughout the College. Non-residents share with residents the use of the common rooms, music practice room, the Ceilie (a licensed pub and games room, run by students that hosts regular evening special functions), the Junior Common Room, and the Morton Reading Room.

To the north, beyond the Master's Lodge, the playing field is suitable for a pick-up game of soccer, football, hockey, softball or frisbee.

The academic life of the College includes Champlain's Society (for guest speakers), the Scholars' Dinners a student film festival, a improv comedy troupe, a radio program, a theatre group, a

campus magazine (*The Absynthe*) a creative writing club and special lecture series. The student Cabinet, elected annually by the Champlain student body, organizes many social and cultural activities to supplement the regular curriculum, in particular, Harvest Weekend in the Fall session and Bon Temps in the Winter session. Members of Champlain College have enjoyed a long tradition of active participation in University activities: athletic, social and communal. Champlain College is home to the departments of Economics, International Development Studies, Political Studies, the Trent International Program, the Trent International Political Economy Centre and the journal *Labour/Le Travail*. The College also offers annually a series of College Courses, short intensive non-credit explorations of cultural and intellectual topics. Past courses have included Mathematics and Poetry, Science and the Arts, the Aboriginal Arts in Canada, East Indian Culture and Heritage, Children's Literature, Celtic Studies, the Culture of the Child, Gandhi and Pacifism, Journalism, Film Direction and Global Nationalisms. Each year Champlain College hosts a program of artists and writers in residence as well as speakers on politics, the arts and journalism.

Julian Blackburn College (JBC)

Telephone: (705) 748-1229
Fax: (705) 748-1007

E-mail: jbc@trentu.ca
Web: www.trentu.ca/jbc

See Blackburn Hall on map of Symons Campus, p. 368.

Oshawa: (905) 721-3003 or (905) 721-3107

Associate Dean and Principal

M. Genoe, B.A., M.A. (Waterloo), M.L.S. (Western Ontario), M.Phil. (Waterloo), M.P.A. (Queen's)

Assistant to the Associate Dean & Principal

P. Lapp, B. A. (Queen's), B.Sc. (Trent), M.A., Ph.D. (Queen's)

Administrative Assistant

T. Menzies, M.A.

Administrative Secretary

D. O'Dette

Senior Tutors and Academic Counsellors

To be named

Manager, Continuing Education

L. Clark, B.A., M.L.S., M.P.A. (Western)

Trent University (Oshawa) Information Co-ordinators

J. Milovick, B.A.; **S. Gunn**

Trent's only non-residential college, Julian Blackburn College (JBC) coordinates the programs to accommodate the part-time learner, manages the delivery of courses for part-time and full-time students at Trent University at the University of Ontario Institute of Technology, and administers the Summer session in Peterborough and Oshawa. JBC provides a range of services to its affiliated students. For more details, see the *Part-time study opportunities* section of this Calendar.

Lady Eaton College

Telephone: (705) 748-1011 ext. 1322
Fax: (705) 748-1630

E-mail: eaton@trentu.ca
Web: www.trentu.ca/colleges/eaton.html

See map of Symons Campus, p. 368.

Principal

A. A. Krüger, Staatsexamen (München)

Senior Tutor

P. J. Northrop

College Don

D. French, B.A., M.A., M.Div.

College Assistant

K. Curle, B.A.

Lady Eaton College is the fourth college within the University and the second college on the Symons Campus. Named in honour of Flora McCrea Eaton, a native of Omemee and one of the original sponsors of the University, the College provides facilities designed to encourage academic and social interaction for a community of students and fellows in an international atmosphere.

Situated against a drumlin, the residential wings and Commons Block enclose a pleasant quadrangle. One-third of the south wing of the College building is reserved as a women's residence while the remainder of the south wing and the entire north wing house both men and women. In total there are 214 single study-bedrooms, five apartments reserved mostly for upper-year students and 12 double study-bedrooms. The College houses as a rule a substantial number of international students from many different countries. On the first floor of one residence wing is an apartment for the College don. There are also offices for many of the fellows of Lady Eaton College including the departmental offices of Ancient History & Classics, History, and Modern Languages (French, Spanish, German), Philosophy, Women's Studies and the offices of the Vice President Academic, the Dean of Arts and Science. Teaching takes place in many of these offices as well as in the College's seminar rooms and lecture hall.

Non-resident members of the College living at home or in lodgings in Peterborough are full members of the College and are encouraged to participate in College activities, to use the Junior Common Room (The Pit), and downstairs they will find computer terminals, the student-run coffee shop (The Magpie), Crawpadies, the LEC Pub, the TV room, the music practice room and other facilities. The dining hall, a spacious and colourful room with small tables, has a warm and friendly atmosphere. When it is not being used for dining it is used for dances, concerts and other special events. Extensive grass fields, ideal for a variety of pick-up sports, surround the College. The Athletic Complex and University Library are close by, across the main driveway.

Art exhibitions are occasionally held in the College. They complement the permanent collection of the College, which includes Inuit sculptures, a gift from Lady Eaton.

A very active student government organizes and sponsors many College events in which students and faculty participate. These include intramural sports, in which most students take part, a varied social program including regular events sponsored by Cabinet; Academic Teas; *The Drumline*, a student publication, and the Lady Eaton College section in the Trent Annual (yearbook).

Language tables organized by the department of Modern Languages & Literatures hold informal weekly meetings in the College during meal times. Each year the College Visitors Program brings scholars, writers, performers and public servants to the College to meet students and fellows and to present seminars and lectures. There are, in addition, regular open College symposia given by fellows of the College and guests on topics of special interest. Regular College events such as "Interact" give international students the opportunity to present their culture and social issues of their country. In addition the "Social Issues Series" with speakers from Peterborough highlights social concerns and connects student volunteers with the Peterborough community. The College has hosted a writer-in-residence program through which an eminent Canadian writer is available for one week of discussions, consultations and readings.

Otonabee College

Telephone: (705) 748-1011 ext. 1342

Fax: (705) 748-1335

E-mail: otonabee@trentu.ca

Web: www.trentu.ca/colleges/otonabee.html

See map of Symons Campus, p. 368.

Principal

I. C. Storey, B.A. (Univ. Trin. Coll.), M.A., Ph.D. (Toronto), M. Phil. (Oxford)

Senior Tutor

J. Mackie B.Sc. (Hons., Queens) Ph.D. (Queen's)

College Assistant

M. Sparkes

The College's buildings range along a cedar ridge overlooking the river from which the College derives its name ("fast moving water"). To the east, an uninterrupted vista of rolling rural landscapes; to the west the newly constructed Peter Gzowski College and the Science buildings, leading to the Faryon pedestrian bridge, which provides easy access to the Bata Library, the Athletics Complex, and the colleges on the West Bank.

Eight "houses" connected by an interior walkway called "the Street," make up Otonabee's residence. Except for one women-only house, the residence is co-educational. Each house contains single- and double study-bedrooms, laundry facilities, a kitchenette and a commons area. Adjacent to the residence is the College Office where the College Principal, College Assistant and Senior Tutor have their offices. Past "the Link," a set of faculty offices, are the mailboxes, College Porter's office, the main dining hall looking to the north and east of the grounds, and the Private Dining Room/Senior Common Room available for smaller gatherings. A large and attractive Junior Common Room and student pub is located close to the Food Court/Dining Hall.

The academic wing is directly connected with the Science Buildings and houses the departments of Psychology, Anthropology, Sociology and Computer Science/Studies. Teaching facilities include a 100-seat lecture theatre, various seminar rooms, laboratories for Anthropology and Psychology, a Sociology resource room, offices for faculty for many of the disciplines in arts and sciences, and the Wenjack Theatre, which provides a venue for multimedia lecture presentations as well as theatrical productions by amateur and professional companies. Nearby are the Archaeology Centre, Mackenzie House and a wildlife sanctuary with walks and ski trails.

Students at Otonabee play a major role in organizing and conducting cultural, social and athletic activities. The student government and its committees cooperate with the College Office and dons in planning and delivering a variety of events for both its non-resident and resident members: visiting scholars, artists, musicians, scientists; College dinners and dances; a student newsletter *The Eastbank*; Fall and Winter College Weekend; and intramural co-educational competitions in a number of sports. Members of the College also participate in the wider academic, social, cultural and athletic activities of the University and the city of Peterborough, including various forms of community service.

Peter Gzowski College

Telephone: (705) 748-1011 ext. 1743

Fax: (705) 748-1795

E-mail: To be announced

Web: www.trentu.ca/colleges/gzowski.html

See map of Symons Campus, p. 368.

Master

To be named

Senior Tutor

To be named

College Don

To be named

College Assistant

C. Diaz, B.A.

Peter Gzowski College, Trent's newest college, is named after the university's former Chancellor, Peter Gzowski (1934-2002), author, broadcaster, columnist and champion of literacy. The College has two sites. One in downtown Peterborough, houses 250 students and provides its own dining room, gym and other recreational facilities. The Education and Nursing programs are located at this site along with faculty from many different academic areas. A frequent bus service connects this Argyle Street site with the Symons campus and with the amenities of downtown Peterborough. On the Symons Campus, a new building, to be completed in Summer 2004, will provide 250 single rooms for students, as well as dining and recreational facilities. This new building includes the First Peoples House of Learning as well as Peter Gzowski College. The First Peoples House of Learning integrates ceremonial, cultural and academic spaces for the Native Studies programs. A performance space supports aboriginal music, dance and theatre, and the cultural events of various departments. Faculty and staff in the departments of Mathematics, Economics and Business Administration will have their offices in this building. Students, faculty and staff will have the opportunity to make significant contributions to the evolving culture of the new college.

Peter Robinson College

Peter Robinson College services will be provided from the office of Peter Gzowski College, and its staff will continue to support current Peter Robinson students.

ACADEMIC SUPPORT SERVICES

Academic Advising

Every Trent student is provided with academic advising resources both by the college with which the student is affiliated and by the academic department(s) with which the student is taking his or her major or joint-major.

Like Trent students, each member of the faculty and administrative staff is affiliated with one of Trent's colleges. Each first-year, full-time student in the residential colleges is assigned an academic adviser from among the faculty or staff affiliated with that college. Students affiliated with Julian Blackburn College (normally part-time students or full-time students studying in Oshawa) receive academic advising from the Julian Blackburn College Academic Counsellor. (See *Part-time study opportunities* for more information about JBC.) Academic advising is also available through the University Centre at Durham College. While the ultimate responsibility for course selection and compliance with the University's academic regulations rests with the student, an adviser can assist with matters of course selection, interpretation of academic regulations, the selection of majors, compliance with university deadlines, etc. Students are advised to make maximum use of their academic adviser in planning their academic program.

The academic advising resources within each residential college are directed by the college's Senior Tutor, who acts as a resource both to students and to advisers. At Julian Blackburn College, the Academic Counsellor coordinates all the advising for students affiliated with JBC. Senior Tutors also sit on the Committee on Undergraduate Standings & Petitions. This committee consists of the Registrar, five Senior Tutors, the JBC Academic Counsellor and a student from each college. CUSP reviews students' petitions and appeals regarding academic regulations.

Academic Skills Centre

Telephone: (705) 748-1720

Fax: (705) 748-1830

E-mail: acdskills@trentu.ca

Web: www.trentu.ca/academicskills

Director

Martin R. Boyne, B.A. (Trent), M.A. (Toronto)

Writing Instructors

Mary Ann Armstrong, B.A. (Trent), M.A. (Toronto), **Maged el Komos**, M.A. (American University, Cairo), **Kevin Spooner**, B.A. (Trent), B.Ed. (Queen's), M.A., Ph.D. (Carleton)

Instructors, TRENT-ESL

Judi Brocklehurst, B.Ed. (Concordia), M.A. (St. Michael's College), **Peggy Krüger**, B.A. (Trent), M.Ed. (Toronto), **Tania Pattison**, B.A. (Trent), M.A. (Toronto)

The Academic Skills Centre teaches students through individual and group assistance, publications and the TRENT-ESL program. The Centre is located in Champlain College but provides services to students in all colleges and at Durham College.

Individual and Group Assistance

All students – in all disciplines and at all levels – may take advantage of the assistance offered by Academic Skills Centre instructors, either in individual appointments or in non-credit mini-courses and workshops. Instructors offer 45-minute appointments during regular business hours throughout the academic year and in the Summer session. These confidential appointments give students the chance to discuss work in progress or to learn valuable skills such as critical and efficient reading, critical thinking, time management, seminar presentation strategies and exam preparation techniques. Many students bring drafts of essays or ask questions about narrowing a topic, finding a thesis or conducting research. In addition to scheduled daytime appointments, instructors offer evening appointments during peak periods of the academic year and are available for drop-in consultation at set times each week. Students are encouraged to book appointments early, especially after reading week each term.

Specialized instruction is available for students with learning disabilities, in consultation with the Disability Services Office; for students whose first language is not English; for students taking French courses; and for students in mathematics or mathematics-based courses, for whom an instructor is available for individual consultation and workshops. The Centre runs a non-credit course, *Transition to University Mathematics*, which is designed to give students a basic orientation in university-level math skills.

The Centre also offers a range of non-credit mini-courses designed to teach, in a group setting, essential academic skills. Mini-course topics include essay writing, clear writing and grammar; workshops are also offered in study skills, time management and exam preparation.

Students should call the Centre or consult the annual brochure or the website for complete details on available appointments, workshops and mini-courses. A number of appointments and workshops are also offered at Trent's campus at Durham College in Oshawa.

Each summer, the Centre teaches *University Prep 101*, a non-credit course designed especially for students making the transition to university. It is of particular interest to high-school students and those coming to university from community college or the workforce. The course provides instruction in the fundamental academic skills related to reading, writing, thinking, and speaking at the university level. Readings and assignments are designed to mirror the expectations of first-year courses with the goal of preparing incoming students well for their first exposure to university.

Publications

Academic Skills Centre instructors write and publish their own books and booklets on a variety of academic skills topics. These publications, which sell widely across Canada and the United States, provide students with an accessible and affordable introduction to essential university-level skills.

The Centre publishes two books that are highly recommended for all undergraduate students. *Notes on the Preparation of Essays in the Arts and Sciences*, now in its fifth edition, covers the principles of documentation in university papers, including sections on all main referencing styles (MLA, APA, CBE), disciplinary preferences, and special coverage of internet citation. *Thinking It Through*, a practical guide to academic essay writing, is a required text for a number of courses at Trent and elsewhere. It covers the entire essay-writing process and includes checklists, exercises, sample essays and an answer key. A revised third edition is scheduled for publication in 2004.

Since 1996, the Centre has added a booklet series to its publications list. Now with over 20 titles, these inexpensive booklets are written to provide clear and succinct advice on particular academic topics, e.g., academic reviews, critical thinking, lecture notetaking, plagiarism and principles of language use and grammar. A new series of booklets is aimed specifically at ESL students and deals with writing, language and academic culture from the perspective of students whose first language is not English.

All publications are available at the bookstores on Trent's Symons Campus and at Durham College, through the Academic Skills Centre, or on-line.

TRENT-ESL Program

The Academic Skills Centre administers the TRENT-ESL program. For information on this program see p. 221.

Bookstore

1720 West Bank Drive, Peterborough, ON K9J 7B8

Telephone: (705) 748-1111

Fax: (705) 748-5802

E-mail: bookstore@trentu.ca

Web: www.trentu.ca/bookstore

Manager

Barbara Reeves

Trent operates a bookstore located at the Symons Campus, to the left of the Bata Library under the Podium, steps away from the main bus stop. The bookstore accommodates a wide range of needs and interests not only for Trent students, faculty and staff, but for the Peterborough community in general.

The bookstore maintains a collection of bibliographical tools which students and staff are encouraged to use. Special orders can be placed at any time providing the books are in print. The store aims to be more than a mere outlet for textbooks and supplies. A wide range of general interest books are also carried along with software, clothing, gifts and a variety of food and beverage items.

There are three or four textbook "buy backs" held throughout the year.

Textbook returns:

New textbooks can be returned under the following conditions:

- Always with a receipt.
- Books have not been written in or underlined.
- Shrink-wrapped "sets" are non-returnable
- If you have dropped a class a full refund is available, with proof of class being dropped, for one month after classes begin or the end of the drop-add period, whichever is first. (Your calendar lists the pertinent dates.)
- Other purchases may be returned for a full refund within seven days of the first day of classes or within two days of your purchase after that date.
- Used book buying guide prices are always available if your return is outside these guidelines.
- Please be careful before opening shrink-wrapped sets. Many contain electronic media and are only returnable if they are defective.
- Coursepacks (reprotexts) are non-returnable.

Information Technology

Telephone: (705) 748-1011 ext. 1586

Fax: (705) 748-1122

E-mail: it@trentu.ca

Web: www.trentu.ca/csd

Director, Information Technology

P. Wood, B.Sc. (Trent), M.Sc. (McMaster)

A wide variety of computing and media resources are available to members of the Trent academic community in support of their research, learning, teaching and scholarship. These include Internet access, e-mail, various computer languages, applications, computer-based services, audio-visual equipment, projectionists, and a media library service. All computing services are available from computer labs on campus, with many also available from other locations over the Internet. Audio-visual services are provided free of charge to all academic programs. All Audio-Visual bookings and requests for services are to be e-mailed (AVServices@trentu.ca) or faxed ([705] 748-1124) to Audio-Visual Services.

Computing resources are accessible only through personalized computer accounts, available to all faculty, staff and students through Computing Services. Accounts for first year students are available in our labs the first week of classes in September.

The use of Trent's computer facilities is available to all Trent students, staff and faculty free of charge.

Library

Telephone: (705) 748-1011 ext. 1539

Fax: (705) 748-1126

Web: www.trentu.ca/library

University Librarian

T. Eadie, B.A., M.A. (Queen's), M.L.S. (Western Ontario)

Librarians Emeriti

A. McCalla, B.A., B.L.S., M.L.S.; **J. A. Wiseman**, M.Phil., Ph.D., F.L.A.

Librarians

D. Binkley, B.A. (Toronto), M.L.S. (Western Ontario), M.A. (Waterloo); **B. Dodge**, B.A., M.A. (Toronto), Ed.D. (Toronto); **K. Field**, B.Mus.Ed. (Dalhousie), M.L.S. (UBC); **M. W. Genoe**, B.A., M.A. (Waterloo), M.L.S. (Western Ontario), M.Phil., (Waterloo), M.P.A. (Queen's); **J. Luyben**, B.A., M.L.S. (Western Ontario); **J. Millard**, B.A. (McMaster), M.L.S. (Toronto), Dipl.Cult.Con. (Victoria), M.A.(T) (McMaster); **M. Scigliano**, B.A. (Toronto), M.L.S. (Dalhousie), M.A. (Concordia) (*on leave 2004-2005*); **J. Watson**, B.A. (Carleton), B.Ed. (Lakehead), M.A. (Laurentian), M.L.I.S. (Western Ontario); **B. Znamirowski**, B.A. (Queen's), M.L.S. (Dalhousie)

The University Library plays a central role in fulfilling the University's mission by providing support for study, teaching and research in the humanities, social sciences and natural sciences. As such, the Thomas J. Bata Library is the architectural focal point of the Symons Campus, adjacent to the University Court.

The on-line Library catalogue, provides access to our collection from workstations within the Library and remotely via the Internet. The Library website (www.trentu.ca/library) provides on-line guides, tutorials, assistance, forms, e-resources, links to valuable sites, and all information related to Library Services and resources. The Library's collection includes more than 525,000 volumes, 280,000 microforms, 2,000 current print serials subscriptions, 6,000 electronic serials, 136,600 maps and air photos, and 228,027 government publications. The Library has recently developed a collection of education materials to support the new Bachelor of Education program. Most print material is available in open stacks. An innovative library instruction program is offered. The Library also has a large Information Commons to facilitate study and research.

The Library houses a number of special collections to support the University's interest in Canadian studies. These include the G.M. Douglas Arctic Collection, the Floyd Chalmers Collection of Canadian Explorations and the A.J.M. Smith Collection of Canadian poetry and literature. Transcripts of the Royal Commission on the Economic Union and Development Prospects for Canada (MacDonald Commission) and those of the Mackenzie Valley Pipeline Inquiry are also available. In addition the Library is a charter subscriber to the Canadian Institute for Historical Microreproductions, and holds the entire collection. The Donner Foundation has provided substantial assistance in building up library resources in support of Native Studies, while the Messecar Foundation has provided support for Canadian studies.

The Trent University Archives holds non-current records of Trent University and serves as a regional archive preserving historical records of the Trent Valley area. There are over 2,500 cubic feet of textual records – private, family, business and institutional papers – as well as 15,000 photographs, maps and other graphic items. Most of the collection is unrestricted to researchers and provides excellent support for many academic programs. In addition, a number of special collections of published materials has been formed, and, to support the University's interest in Canadian studies, the library has concentrated on the acquisition of rare Canadiana.

The Maps, Data & Government Public Centre (MADGIC) is a major resource for all students. The department serves as a regional depository for several governments including the federal government of Canada and provincial government of Ontario. Services include a Data and Image Laboratory which offers a growing collection of digital information including numeric databases, textual databases, geospatial data, statistical and mapping software. Other important collections include parliamentary and legislative papers; statutes and regulations and other Canadian legal tools; First Ministers' Conference Papers; royal commission reports and transcripts; an extensive collection of Statistics Canada products. Some important cartographic resources include Canadian and international atlases and gazetteers; topographic maps; thematic maps; Ontario base maps; a travel map collection; as well as maps and aerial photography of the Peterborough/ Kawartha region.

Students with Special Needs

Bata Library, Suite 109

Telephone: (705) 748-1281

Telephone TDD: (705) 748-1482

Fax: (705) 748-1509

E-mail: specialneeds@trentu.ca

Web: www.trentu.ca/sno

Manager Special Needs **Eunice Lund-Lucas**

Within its resources, Trent University endeavours to ensure the accessibility of its campus and programs to all students, including those with special needs. The University has a Disability Services (Special Needs) Office, located on the ground floor of the Bata Library building, and a co-ordinator for Special Needs, who provides support and advocacy on behalf of students with physical, sensory or learning disabilities. Some of the services provided by this office include transcription services for those who are visually impaired or print disabled, assistance with obtaining note-takers for hearing-impaired students, exam invigilation services for students with a variety of special needs, and liaison with faculty members and with support agencies in the community. In addition, the Disability Services (Special Needs) Office has available some adaptive technological aids such as a computer equipped with voice synthesizer, optical scanning equipment, computers, reading lamps, portable FM systems, four-track tape recorders and hand-held tape recorders.

Special needs students considering attending Trent are strongly encouraged to contact the Office at the time of application since some action may be necessary in advance to accommodate the student's needs. Where appropriate, for example in the case of a learning disability, formal diagnosis and assessment of the condition will be required. Normally this would include a report prepared by a registered psychologist within the past three years. In all cases early identification of needs is extremely important.

Students with mobility impairments are strongly urged to visit the campus to determine its suitability to their needs and interests. Most buildings are equipped with ramps and/or elevators to provide access for persons with mobility difficulties.

Students with special needs are also encouraged to become aware of assistance that is available through various private and public agencies. For example, hearing-impaired students from Ontario may be able to get financial assistance for note-takers or tutors from Educational Support Services of the Canadian Hearing Society while students requiring adaptive technology may obtain partial funding from the Assistive Devices program of the Ontario government. Students from other jurisdictions who have special needs should investigate the availability of assistance through such agencies in their home province or country.

The Disability Services (Special Needs) Office also co-administers with the Financial Aid Office the Ontario Bursary for Students with Disabilities for eligible students who incur disability-related educational expenses. Applications for these bursary funds are available in September of each year.

STUDENT SERVICES

Office of Student Affairs

Telephone: (705) 748-1011, ext 5125
Fax: (705) 748-1109

E-mail: studentaffairs@trentu.ca
Web: www.trentu.ca/studentaffairs

Senior Director of Student Affairs and Community Partnerships

Meri Kim Oliver

The Office of Student Affairs provides administrative and programming support to the various departments that coordinate student services on campus. These services include athletics, bus transportation, career resource services, personal counselling services, a student health clinic, disabilities services office, conference and catering services, student pub operations, the introductory seminar week orientation and health education. The Student Affairs Office also facilitates committee meetings with student involvement for each of these services to help raise awareness, address concerns, and make recommendations for improvements that will benefit the students and the University.

Trent students have access to a broad range of services and facilities designed to assist and support them academically, and to enhance their social and cultural experience. Student organizations sponsor formal and informal events throughout the year, and student-driven initiatives such as a community radio service, student newspapers and a wide range of clubs and groups serve to enrich student life.

Aboriginal Student Services

Trent University's Native Studies department offers several services for Aboriginal students at the university.

Peer Tutor and Mentor Program

The Peer Tutor and Mentor Program matches upper year undergraduate and graduate students with lower year students to help them with both their academic work and the transitions that come with entering university. The Peer Tutors and Mentors come from a number of different fields of study within the University in order to best be able to aid students in need. Individual academic support is available and workshops are held throughout the year on topics such as Time Management, Exam Stress and Essay Writing.

Cultural Advisor

The department has a Cultural Advisor on staff who is available for consultation with students, staff and faculty regarding matters of cultural appropriateness, protocol and ceremony.

Our Cultural Advisor, Vern Douglas can be reached at (705) 748-1011 ext. 1072 or by e-mail at vdouglas@trentu.ca.

Aboriginal Counselor

The department also retains an Aboriginal Counselor who is available to Aboriginal students and to students in Native Studies. The Counselor can assist with issues regarding university life and academics as well as with personal problems which arise as a result of school or other life experiences. Pre-booked and drop-in appointments are available.

Our Aboriginal Counselor, Joeann Argue, can be reached at (705) 748-1011 ext. 1612 or by e-mail at jargue@trentu.ca.

Trent University Native Association (TUNA)

Begun in 1969, TUNA provides a voice for Aboriginal students within the department of Native Studies and the Trent community. It is a body organized by, for and about Trent's Aboriginal student population. TUNA organizes various cultural, social and recreational events throughout the year and provides a forum to discuss and deal with issues affecting Aboriginal peoples. TUNA can be contacted by e-mail at: tuna@trentu.ca.

Alumni Association

Traill College
Telephone (705) 748-1573
Fax: (705) 748-1785

E-mail: alumni@trentu.ca
Web: www.trentmagazine.ca

Director

Tony Storey

Studying at Trent University is an exciting and important time in a student's life, but it is just one phase in the lifelong relationship that the Alumni Association fosters and encourages.

Trent's alumni/ae remain informed, interested and involved, long after graduation day. Recent graduates help represent the university to high school students; university committees and boards benefit from alumni participation; Reunion Weekend welcomes alumni back to campus each year; 22 Chapters across Canada and overseas provide opportunities for Trent alumni to meet in their home communities and our magazine, *Trent*, is provided to alumni and friends around the world three times a year.

Alumni involvement is visible every day at Trent through bursaries, awards, prizes, scholarships, hospitality to new students, special lectures and sponsored events.

Trent's alumni number over 23,500 and their success as liberal arts and science graduates is impressive and diverse. They include a nationally recognized executive search consultant, an award-winning physicist, a federal cabinet minister, a leading Canadian church-woman, a pioneering specialist in Canadian environmental law, an innovative leader in information technology, a doctor committed to international humanitarian causes and several award-winning writers and musicians.

This strong and lasting bond that alumni form for Trent is an indication of the richness of their experiences as students.

Athletic Program

Telephone: (705) 748-1257
Court Bookings/Swim Times: (705) 748-1483
Fax: (705) 748-1447

E-mail: athletic@trentu.ca
Web: www.trentu.ca/athletics

Director

Bill Byrick

Trent offers a diversified athletic and recreational program, ranging from organized inter-university competition to completely informal recreational activities. Facilities include a rowing venue, a full-size lighted playing field, a gymnasium, a 25-metre pool, squash courts, a weight room and fitness centre, saunas and locker facilities.

Inter-university and intramural competition is organized in a wide range of sports, and Trent University is a full member of Ontario University Athletics and the Canadian Inter-University Sport. Competitive options include water polo, basketball, cross-country running, fencing, hockey, rowing, rugby, soccer, softball, squash, flag football, field hockey, volleyball, swimming, curling, ultimate frisbee and triathlon. A complete schedule of aquatic leadership and fitness programs is available.

The staffing requirements of Trent's athletic programs and facilities generate a significant number of student employment opportunities.

Bus Service

Trent's campuses are connected to the city by two bus routes operated by the City of Peterborough. The Trent Express and Trent Direct are operated specifically for students and other members of the Trent community during the Fall and Winter sessions, and are scheduled to coincide with the University's academic timetable. The City's George Street North bus runs regularly and connects Trent with nearby neighbourhoods.

The compulsory transportation fee paid by full-time students entitles students to a bus pass which is honoured on all City of Peterborough bus routes, giving Trent students access to the entire city from the Labour Day holiday in September to the Victoria Day holiday in May each

year. Please see section on Ancillary Fees for information on the compulsory transportation fee, or view Trent's website: www.trentu.ca/admin/bus. Part-time students may purchase a student bus pass if they meet certain criteria.

Students enrolled in Summer session at Trent may purchase a Summer bus pass from the Office of Student Affairs.

Career Centre

Champlain College

Telephone: (705) 748-1011, ext 1385

Fax: (705) 748-1563

E-mail: Careers@trentu.ca

Web: www.trentu.ca/careers

Centre Hours: 9:00 a.m. to 5:00 p.m.

The Career Centre maintains a library of career planning and job search information, and a variety of school calendars from Canadian and international colleges and universities. The Centre provides individual career counselling and group workshops on resume writing, job search strategies and career planning. Computers are available in the library to access Campus WorkLink and on-line career information.

Campus WorkLink

An Internet-based job posting site for university students and graduates is available at Trent University. Contact the Career Centre or visit the website for the "password" to hundreds of recruitment campaigns, internships, and full-time, part-time, Summer and volunteer positions.

Add your profile (resumé) to the database to link you to employers and give you access to all the features at Campus WorkLink.

Child Care Centre

1600 West Bank Drive

Telephone: 743-2811

Web: www.trentu.ca/org/tccc

Administrator

Sandra Robinson

The Trent Child Care Centre is a non-profit organization offering care to 52 children aged from six weeks to five years. All staff have Early Childhood Education diplomas and maintain current First-Aid and Infant-Child C.P.R. training. Trent Child Care is licensed by the Ministry of Community, Family and Children's Services under the Ontario Day Nurseries Act. The facility offers care to all members of the community, and fee subsidies are available for those who qualify. Early registration is urged, as waiting lists exist.

Conference Services

Lady Eaton College

Telephone: (705) 748-1260

Fax: (705) 748-1209

E-mail: conferences@trentu.ca

Web: www.trentu.ca/conferences

Director

Ashok Kaushik

Trent's Conference Services hosts conferences, retreats, academic and sports camps, and various other events throughout the year. Conference services provides employment opportunities to students both during the academic year and through the Summer months. Accommodation for visiting students and their families are available from May to August.

Counselling Centre

Blackburn Hall, Suite 113

Telephone: (705) 748-1386

Fax: (705) 748-1137

E-mail: counselling@trentu.ca

Web: www.trentu.ca/counselling

Centre hours are 9 a.m. to 12:00 pm and 1 p.m. to 4 p.m. Monday to Friday.

Personal counselling is available to all students through the Counselling Centre. Many students seek support for specific concerns related to anxiety, depression, grief, and relationship challenges. Other students come to the Centre with less clearly defined difficulties such as low motivation, poor self-image/esteem, stress, loneliness and adjustment issues, all of which can seriously interfere with one's daily functioning and academic performance. Through discussions and goal-setting, counsellors can help students to more fully understand themselves, their concerns and to learn effective coping strategies. A few sessions of individual counselling are often sufficient to find a solution or at least to view the problem from a more manageable perspective. The opportunity to speak freely about one's concerns in a confidential and non-judgmental atmosphere can provide a source of comfort and relief. Relevant referrals within the Trent and Peterborough communities can be arranged as appropriate. Group therapy and workshops on selected topics are offered throughout the year. Limited psychiatric services are also provided. To book an appointment contact Karen at (705) 748-1386

Off-Campus Housing Service

September – April: Housing Services Blackburn Hall

Telephone: (705) 748-1011, ext. 5128

E-mail: housing@trentu.ca

Web: www.trentu.ca/housing

May – August: Peter Robinson College Townhouse

Telephone: (705) 872-6394

The Off-Campus Housing service offers a variety of listings of accommodations in the Peterborough area, as well as copies of the Tenant Protection Act and basic information on renting an apartment or house. Listings are posted regularly and can be viewed year round at our website. Students are welcome to visit the Off-campus Housing Office where they can view the listings, ask questions and pick up a map of the City of Peterborough, or to look at our website or e-mail us for more information.

Student Health & Dental Benefit Plans

Trent Central Student Association Student Benefits Office

Telephone: (705) 748-1107

Fax: (705) 748-1108

E-mail: trentplans@yahoo.ca

The Trent Central Student Association's Health and Dental Plans offer a full year of coverage to all eligible full-time students. Information and confidential service is provided to students throughout the year at the Student Benefits Office.

The Student Health & Dental Plans are a requirement of full-time enrolment and fees for both of these plans are mandatory. Each year, students are given one opportunity to opt-out of either plan, opt-in, or add a spouse and/or dependents. A stringent deadline will be advertised at the beginning of the school year.

In order to opt-out and be reimbursed their fees, full-time students must submit a completed waiver form along with proof of other existing health and/or dental coverage directly to the Student Benefits Office before the advertised deadline. Students wishing to opt-out need only do so one time during their studies, provided they are consecutively studying full-time at Trent University. Opt-out (reimbursement) cheques will be available for pick-up towards the end of November each year at the Student Benefits Office.

Students may contact the Student Benefits Office as soon as they arrive on campus for information about the Student Health & Dental Benefit Plans.

Student Health Services

Blackburn Hall
Telephone: (705) 748-1481
Fax: (705) 748-1055

E-mail: awalters@trentu.ca
Web: www.trentu.ca/healthserv

Director

Ann Walters, Reg.N.

Trent University Student Health Services, located in Blackburn Hall, provides professional health care and lifestyle counselling for full-time and part-time students from September through April. The service is closed from May through August. A physician and nurse are available from 9 a.m. to noon and 1:30 to 4:30 p.m. Monday through Friday. Appointments are preferred for all clinics.

The University requires all students to carry medical insurance. Any student without insurance is held personally responsible for his/her health care costs. Students from Canada must submit valid provincial Health Card numbers when they attend Student Health Service. Students from Quebec who seek medical attention will be charged a fee which is usually recoverable through their provincial health plan since Quebec does not participate in a reciprocal billing arrangement. International students must arrange for UHIP coverage before registration through the Trent International Program.

The Ontario Ministry of Health recommends that all students attending university/college have documented receipt of routine immunizations (including a single dose of MMR). Mantoux testing for Tuberculosis is recommended by the Peterborough County-City Health Unit before attending university. Please discuss meningococcal immunization with your family physician before admission. Testing and immunization are not mandatory but recommended. All services are completely confidential. HIV testing is available.

Trent Central Student Association

Suite S110, Champlain College

Telephone: (705) 748-1000
Fax: (705) 748-1002

E-mail: tcsa@trentu.ca
Website: www.trentu.ca/tcsa

The Trent Central Student Association (TCSA) is the student union that represents full-time undergraduate students at Trent University studying in Peterborough. General elections are held each year in early Spring and a by-election for vacant and first year positions in early Fall. The Trent Central Student Association, also Local 71 of the Canadian Federation of Students, works hard to represent the interests of its members through the advocacy and activism of the national, provincial and local student movements. The TCSA also supports its members through the essential services it provides such as the health and dental plans, social events planning, community resources, discount programs, and other services. In addition, the TCSA works very closely with all of the college cabinets, the Julian Blackburn Students' Association and the Graduate Student Association as well as the clubs, groups and student societies on campus in its efforts to supplement each student's education with essential academic, political and social support.

Academic Calendar 2004–2005



Graduate Studies

TABLE OF CONTENTS

Graduate Studies at Trent	293
Administration	294
Important Deadlines	294
Admissions	297
Fees	299
International Students	300
Financial Aid and Recognition of Academic Excellence	301
Student Services	311
Academic Regulations	312
Master's and Doctoral Degree Regulations	312
Academic, Research and Thesis/Dissertation Requirements	315
Principles Governing Submission and Examination of Theses/ Dissertations	317
Programs	320
Anthropology (M.A.)	320
Applications of Modelling in the Natural & Social Sciences (M.A. and M.Sc.)	322
Canadian Studies & Native Studies (M.A.)	325
Canadian Studies (Ph.D.)	329
Native Studies (Ph.D.)	332
Theory, Culture & Politics (M.A.)	337
Watershed Ecosystems (M.Sc. and Ph.D.)	340
Trent/Queen's Program (various Master's and Ph.D. programs)	345
Research Centres and Institutes	347
Canadian Environmental Modelling Centre	347
Centre for the Study of Theory, Culture & Politics	347
Frost Centre for Canadian Studies & Native Studies	348
Institute for Health Studies	348
James McLean Oliver Ecological Centre	348
Trent Environmental Policy Institute	348
Trent Institute for Materials Research	349
Trent International Political Economy Centre	349
Trent University Archaeological Research Centre	349
Trent University Institute for Mass Spectrometry (TUIMS)	350
Trent University Water Quality Centre	350
Watershed Biogeochemistry Centre	350
Watershed Science Centre	350

GRADUATE STUDIES AT TRENT

Office of Research and Graduate Studies

Mailing Address:

Trent University, 1600 West Bank Drive, Peterborough, Ontario K9J 7B8

Office Location: Suite 101, Otonabee College, 2151 East Bank Drive

Telephone: (705) 748-1011 ext. 1245

E-mail: graduate@trentu.ca

Fax: (705) 748-1587

Web: www.trentu.ca/gradstudies

www.trentu.ca/research

Dean of Research and Graduate Studies

To be named

Co-ordinator of Research and Graduate Studies

C. J. Smith (705) 748-1011 ext. 1496

E-mail: cjsmith@trentu.ca

Graduate Studies Officer

To be named

Industry Liaison Officer

(705) 748-1011 ext. 1674

Project Manager

K. Bosch (705) 748-1011 ext. 5275

E-mail: kbosch@trentu.ca

Administrative Assistant – Scholarships & Bursaries

A. MacLeod (705) 748-1011 ext. 5075

E-mail: amacleod@trentu.ca

Administrative Secretary

K. Mauro (705) 748-1011 ext. 1245

E-mail: kmauro@trentu.ca

Graduate programs at Trent University are organized somewhat differently from graduate programs at most universities in Canada. The graduate programs are interdisciplinary and focus on areas of research strength at Trent. Therefore, in most cases, the graduate programs are not associated with undergraduate departments and administration of the graduate programs is independent from undergraduate teaching. This means that a faculty member who supervises a graduate student is often a member of an undergraduate department and a separate graduate program. This type of organization encourages interdisciplinarity in our graduate programs and facilitates interactions between faculty and graduate students from different disciplines.

In addition to degree programs at Trent, an agreement with Queen's University at Kingston allows for selective enrolment at the Master's and Doctoral levels in programs at Queen's with actual study and research supervision under Trent faculty on Trent's campus.

The following graduate programs are currently offered at Trent University:

ANTH	Anthropology M.A.
AMOD	Applications of Modelling in the Natural & Social Sciences M.A. or M.Sc.
CAST	Canadian Studies Ph.D.
CSNS	Canadian Studies & Native Studies M.A.
TCPS	Theory, Culture and Politics M.A.
NAST	Native Studies Ph.D.
WEGP	Watershed Ecosystems M.Sc. or Ph.D.
Trent/Queen's – various Master's and Ph.D. programs	

ADMINISTRATION

The Office of Research and Graduate Studies is responsible for the administration of graduate degree programs offered at Trent University, the co-ordination and promotion of research and scholarship within the University, and the protection and management of intellectual property.

The office is administered by the Dean of Research and Graduate Studies, the Co-ordinator of Research and Graduate Studies, the Graduate Studies Officer and the Industry Liaison Officer in co-operation with University committees for specific areas.

The Committee on Graduate Studies consists of members of faculty and graduate students from various disciplines. This body makes executive decisions regarding graduate admissions and the application of general regulations, standards and procedures.

The Patents and Copyright Committee consists of faculty and University representatives with the Industry Liaison Officer acting in an advisory capacity. As well, the Industry Liaison Officer assists students and faculty members in the achievement of external research partnerships, related awards and with the negotiation of agreements, particularly concerning research and development initiatives.

IMPORTANT DEADLINES

Readers are advised that changes may occur to the dates listed below. Students will be notified if significant changes occur, and alteration in dates will be published in the Supplement to the Calendar each year. Where a deadline falls on a weekend, the following Monday will apply. (See University Diary for overall academic schedule and listing of observed holidays.)

Note: For students wishing to complete degree requirements in time to convocate at Spring 2004 Convocation, the following deadlines apply:

Apr 2	Friday	Last possible date to successfully defend thesis/dissertation for those wishing to convocate at Spring Convocation
Apr 19	Monday	Last possible date to submit final copies of successfully defended thesis/dissertation to the Office of Research and Graduate Studies for those wishing to convocate at Spring Convocation

SPRING SESSION 2004 (MAY TO AUGUST)

Note: May-start students with defence dates set before May 7, 2004 will be required to register but this term's fees will be cancelled upon successful defence and submission of final copies of thesis/dissertation to the Office of Research and Graduate Studies by May 28, 2004. Students who fail to meet this deadline will be assessed one full term's fees (i.e. May – August)

Apr 23	Friday	Last date to apply for approval from the Research Ethics Committee for Summer research
May 3	Monday	Registration and fee payment due for May-start students
May 3	Monday	Fee installment due for September and January-start students
May 7	Friday	Last possible date to successfully defend thesis/dissertation in order to be exempted from fees for this term (in accordance with Trent University's Graduate Refund Schedule).
May 28	Friday	Last date for May-start students to register and pay fees without late penalty
May 28	Friday	Last date for September and January-start students to pay fee installment without late penalty
May 28	Friday	Spring Convocation
May 28	Friday	Last possible date to submit successfully defended final copies of thesis/dissertation to the Office of Research and Graduate Studies in order to have fees for this term cancelled (in accordance with Trent University's Graduate Refund Schedule.)
		Students who fail to meet this deadline will be assessed one full term's fees (i.e. May – August)

June 25	Friday	Final date for May-start students to register and pay fees with late penalty.
June 25	Friday	Final date for September and January-start students to pay fees installment with late penalty
June 25	Friday	Failure of May-start students to register and pay fees, or September and January-start students to pay fees installment, by this deadline will result in <i>immediate withdrawal from the program without notice.</i>
June 30	Wednesday	Ministry of Training, Colleges and Universities (MTCU, formerly MET) count date

FALL SESSION 2004 (SEPTEMBER TO DECEMBER)

Note: September-start students with defence dates set before October 8, 2004 will be required to register but this term's fees will be cancelled upon successful defence and submission of final copies of thesis/dissertation to the Office of Research and Graduate Studies by October 29, 2004. Students who fail to meet this deadline will be assessed one full term's fees (i.e. September – December)

Sep 7	Tuesday	Registration and fee payment due for September-start students
Sep 7	Tuesday	Fee installment due for January and May-start students
Sep 7	Tuesday	Graduate Orientation Days (compulsory) begins
Sep 8	Wednesday	Graduate Orientation Days (compulsory)
Sep 10	Friday	WHIMIS Course for lab-based students
Sep 27	Monday	Last date for September-start students to register and pay fees without late penalty
Sep 27	Monday	Last date for January and May-start students to pay fee installment without late penalty
Oct 8	Friday	Last possible date to successfully defend thesis/dissertation in order to be exempted from fees for this term (in accordance with Trent University's Graduate Refund Schedule).
Oct 29	Friday	Final date for September-start students to register and pay fees with late penalty.
Oct 29	Friday	Final date for January and May-start students to pay fee installment with late penalty
Oct 29	Friday	Failure of September-start students to register and pay fees, or January and May-start student to pay fee installment, by this deadline will result in immediate withdrawal from the program without notice.
Oct 29	Friday	Last possible date to submit successfully defended final copies of thesis/dissertation to the Office of Research and Graduate Studies in order to have fees for this term cancelled (in accordance with Trent University's Graduate Refund Schedule.) Students who fail to meet this deadline will be assessed one full term's fees (i.e. September – December)
Nov 1	Monday	Ministry of Training, Colleges and Universities (MTCU, formerly MET) count date

WINTER SESSION 2005 (JANUARY TO APRIL)

Note: January-start students with defence dates set before January 7, 2005 will be required to register but this term's fees will be cancelled upon successful defence and submission of final copies of thesis/dissertation to Office of Research and Graduate Studies by January 28, 2005. Students who fail to meet this deadline will be assessed one full term's fees (i.e. January – April).

Jan 3	Monday	Registration and fee payment due for January-start students
Jan 3	Monday	Fee installment due for September and May-start students
Jan 7	Friday	Last possible date to successfully defend thesis/dissertation in order to be exempted from fees for this term (in accordance with Trent University's Graduate Refund Schedule).

Jan 28	Friday	Last possible date to submit successfully defended final copies of thesis/dissertation to the Office of Research and Graduate Studies in order to be exempted from fees for this term (in accordance with Trent University's Graduate Refund Schedule). Students who fail to meet this deadline will be assessed one full term's fees (i.e. January – April)
Jan 28	Friday	Final date for January-start students to register and pay fees without late penalty
Jan 28	Friday	Final date for September and May-start students to pay fee installment without late penalty
Feb 1	Tuesday	Ministry of Training, Colleges and Universities (MTCU, formerly MET) count date
Feb 25	Friday	Final date for January-start students to register and pay fees with late penalty.
Feb 25	Friday	Final date for September and May-start students to pay fee installment with late penalty
Feb 25	Friday	Failure of January-start students to register and pay fees, or September and May-start students to pay fee installment, by this deadline will result in immediate withdrawal from the program without notice.

Note: For students wishing to complete degree requirements in time to convocate at Spring 2005 Convocation, the following deadlines apply:

Apr 1	Friday	Last possible date to successfully defend thesis/dissertation to be eligible for those wishing to convocate at Spring Convocation
Apr 22	Friday	Last possible date to submit final copies of successfully defended thesis/dissertation to the Office of Research and Graduate Studies for those wishing to convocate at Spring Convocation

SPRING SESSION 2005 (MAY TO AUGUST)

Note: May-start students with defence dates set before May 6, 2005 will be required to register but this term's fees will be cancelled upon successful defence and submission of final copies of thesis/dissertation to the Office of Research and Graduate Studies by May 27, 2005. Students who fail to meet this deadline will be assessed one full term's fees (i.e. May – August)

Apr 22	Friday	Last date to apply for approval from the Research Ethics Committee for Summer research
May 2	Monday	Registration and fee payment due for May-start students
May 2	Monday	Fee installment due for September and January-start students
May 6	Friday	Last possible date to successfully defend thesis/dissertation in order to be exempted from fees for this term (in accordance with Trent University's Graduate Refund Schedule).
May 27	Friday	Final date for May-start students to register and pay fees without late penalty
May 27	Friday	Final date for September and January-start students to pay fee installment without late penalty
May 27	Friday	Last possible date to submit successfully defended final copies of thesis/dissertation to the Office of Research and Graduate Studies in order to have fees for this term cancelled (in accordance with Trent University's Graduate Refund Schedule.) Students who fail to meet this deadline will be assessed one full term's fees (i.e. May – August)
June 3	Friday	Spring Convocation
June 24	Friday	Final date for May-start students to register and pay fees with late penalty.
June 24	Friday	Final date for September and January-start students to pay fee installment with late penalty
June 24	Friday	Failure for May-start students to register and pay fees, or September and January-starts students to pay fee installment, by this deadline will result in immediate withdrawal from the program without notice.
June 30	Thursday	Ministry of Training, Colleges and Universities (MTCU, formerly MET) count date

There will be no exceptions to these deadlines.

ADMISSIONS

Admission Requirements

The minimum requirement for admission to a Master's program is a Bachelor's degree, in an Honours program or the equivalent, from a recognized university. Applicants to the Ph.D. program in Canadian Studies, Native Studies or Watershed Ecosystems should normally have an M.A. or M.Sc. degree as appropriate.

The applicant must have achieved an average of at least an upper second-class standing (B+/77%) in the work of the last four semesters or the last two undergraduate years (full-time equivalent). Individual programs may have further admission criteria. Applicants should consult the program section of the calendar for details.

Admission Process

All applications will be initially examined and evaluated by the appropriate programs. All supporting documents (transcripts, letters of reference, etc.) must be received before any application can receive formal consideration. A program's recommendations for admission will be forwarded to the Office of Research and Graduate Studies whereupon the completed applications will be considered by the Committee on Graduate Studies. The Office of Research and Graduate Studies will officially notify each applicant of the action taken on his or her application.

Official letters of acceptance are only for the academic year indicated. Successful applicants must reply in writing indicating whether or not they accept the offer of admission. Acceptance of an offer of admission will normally be required within four weeks of the date of the offer letter. If the applicant is unable to commence studies in the term agreed upon, the programs reserve the right to reconsider their acceptance.

Application

Initial enquiries concerning graduate study at Trent University should be made directly to the graduate programs. However, applications for admission to graduate studies must be made on the prescribed form and submitted to the Office of Research and Graduate Studies.

Applications are due by February 2, 2005 in order to be considered for admission and funding. Students are urged to apply early. Applications can be found at www.trentu.ca/gradstudies/admissions.html

Self-Managed Application

The Trent University application for graduate studies is self-managed. Applicants must download the package from the above website and are responsible for collecting and submitting all required pieces to the Office of Research and Graduate Studies by the deadline. In order to be considered official, transcripts must be received in envelopes sealed by the issuing institution. Letters of recommendation from faculty must be in signed and sealed envelopes. Assessments and transcripts will be verified. Official TOEFL and GRE scores, where required, must be sent to Trent University by Educational Testing Service. Incomplete applications will not be processed.

Application Fee

The application fee is non-refundable and will not be counted towards tuition fees. Applications will not be processed unless the Application Fee is received. This requirement cannot be waived or deferred. Payment must be made by certified cheque or money order payable to the Office of Research and Graduate Studies and included in the application package.

Transfer of Credit

Graduate courses completed at another institution may be accepted in partial fulfilment of Trent's degree requirements. Credit for such work will be determined by the Committee on Graduate Studies on the recommendation of the program concerned. This recommendation must be supported by a statement regarding the appropriateness of the course(s) to the individual's particular degree program at Trent. In addition, the grade(s) earned in the course(s) must meet the equivalent minimum grade required of all graduate students at Trent. Courses considered for credit normally must have been taken within five years of the date of admission into a graduate program at Trent.

Qualifying Courses

Applicants who meet the minimum average for admission but whose curriculum background is not sufficient for direct entry into a graduate program may be advised to undertake qualifying courses. Successful completion of these courses as recommended by the program concerned will permit the student to compete for admission on an equal basis with other applicants. Subsequent admission to a graduate program is not, however, guaranteed.

Special Admissions

Applicants who demonstrate the ability to succeed in a graduate program but do not meet the published minimum academic requirements due to exceptional circumstances may qualify for special admission. Determination of the application's suitability to the program will be made by the program admissions committee and program director. If special admission is deemed appropriate, the program director will submit a recommendation to the Dean of Research and Graduate Studies for approval.

English Proficiency Requirements

Proficiency in English usage, both written and oral, is essential to pursue graduate studies at Trent University. Applicants whose primary language is not English and who completed their previous university education in a language other than English, must provide proof of proficiency in English, before admission.

Where the language of instruction in the previous university education has been English, the Committee on Graduate Studies is prepared to consider alternate proof of English language proficiency. Applicants who studied at a university in Bangladesh, India, Nigeria or Pakistan are not eligible for this exception and must provide proof of English language proficiency using one of the tests listed below.

The following tests are acceptable forms of proof of English language proficiency:

- TOEFL (Test of English as a Foreign Language) A minimum score of 580 PBT or 237 CBT with a minimum TWE score of 4.5 is required.; (Educational Testing Service, Princeton, New Jersey 08540, U.S.A.)
- CAEL (Canadian Academic English Language Test) – alternate test only for applicants who do not have access to TOEFL (Carleton University, Ottawa, Ontario, Canada K1S 5B6). The minimum acceptable score is 60, with at least 60 in Writing Proficiency.
- MELAB (Michigan English Language Assessment Battery). The minimum acceptable score is 85, with no part below 80.
- IELTS (International English language Testing Services). The minimum acceptance score is 6.5, with no band below 6.0.

Applicants must make their own arrangements for taking language tests and having the results sent to the University in time to meet its application deadline by contacting the centre in their locale or by writing to one of the above.

Graduate Record Examinations

Applicants for admission whose academic credentials are difficult to assess may be asked to take the Graduate Record Examination administered by the Educational Testing Service, Princeton, NJ, 08540, USA. Students are expected to make their own arrangements and will bear the cost of taking the Graduate Record Examinations.

FEES

Notes

- All students must register and pay fees at the beginning of their program of study and must maintain continuous registration and fee payment (except during approved leaves) until degree requirements have been completed and notification of approval to convocate has been received. Returning students who have an unpaid University account for fees and other charges (including library fines and parking fines) at the time of re-registration will be deemed financially ineligible to register.
- Students enrolled under the Trent/Queen's agreement, while at Trent, are assessed Queen's tuition fees and Trent's ancillary fees.
- Students paying in instalments will be charged a \$60 instalment fee. Those wishing to pay by instalments will be required to pay one-third of their tuition plus one-half the ancillary fees in the first instalment.
- Late registration fees may be charged. See Important Deadlines (p. 294). These charges are subject to change.
- In order to convocate, all students (full- and part-time) must have paid at least the minimum Degree Fee.
- Provided the Degree Fee has been met, pro-rated refunds of tuition, ancillary and other University fees may be available (in accordance with Trent University's Graduate Refund Schedule) to those who:
 - a) withdraw from a graduate program,
 - b) complete degree requirements partway through the third or subsequent year.
 - c) complete part-time Master's degree requirements partway through the fifth or subsequent year;
 - d) complete full-time Doctoral degree requirements partway through the fourth or subsequent year; or
 - e) complete part-time Doctoral degree requirements partway through the seventh or subsequent year.

2004–2005 GRADUATE STUDENT FEE SCHEDULE

(Based on 2003–2004 fees and subject to revision for 2004–2005)

DEGREE FEE – In order to convocate, all graduate students (full- and part-time) must have paid at least the minimum Degree Fee. This will be based on the value of two years' tuition for a full-time Master's student, e.g., the full-time tuition fee value in the year the degree is completed and in the preceding year. [The doctoral degree fee will be based on the value of three years' tuition for a full-time student.] Students who continue study after they have paid the degree fee must continue to pay regular tuition fees in order to remain in program.

Tuition Fees¹	Full-time	Part-time
Graduate Domestic (3 terms) (Canadians & Permanent Residents)	\$ 5,410.00	\$ 2,705.00
Graduate International Student Differential – assessed to non-Canadians and is in addition to the Domestic fee (as above)	6,453.00 \$11,630.00	n/a
Ancillary Fees		
Student Health Service	\$ 33.00	\$ 2.96
Athletics	134.29	65.14
Graduate Students' Association	27.00	11.00
College Fee ²	67.60	33.80
Convocation Fee	13.25	2.65
TCSA/GSA Drug Plan ³ (2003–2004 rate)	127.00	n/a
TCSA/GSA Dental Plan (2003–2004 rate)	112.00	n/a
Total Ancillary Fees	\$506.85	\$118.98

Optional

Transportation Fees	\$177.84	n/a

Off-Campus Housing

For Off-Campus Living see www.trentu.ca/housing.

Other Fees

Application Fee	50.00	
Late Registration Fee (see Important Deadlines, p. 294)	100.00	
Application for Leave of Absence	25.00	
Application for Re-Admit	50.00	
Official Letters	5.00	
Replacement T2202 Current Session	8.00	
Previous Sessions	18.00	
Thesis Microfilming <i>plus applicable taxes</i>	37.00	
Thesis Binding (per copy) <i>plus applicable taxes & shipping</i>	13.00	
University Health Insurance Plan for International Students (<i>Mandatory</i>)	738.00	for 1 person*

* premium depends on number of people covered

¹ Subject to approval by the Trent University Board of Governors. The University reserves the right to alter fees and fee structures.

² Graduate student college fees are distributed to the appropriate college, and to the Graduate Student's Association.

³ The TCSA/GSA student health (supplemental/prescription) and dental plan is compulsory for full-time students, with an opportunity for opting out (see Health Benefits deadlines) and applying for a refund of the fee if covered by alternate insurance.

Degree Completion Fee Payment

Students who complete their program of study, including a successful defence and submission of final copies of thesis/dissertation to the Office of Research and Graduate Studies by the final submission date published in the Graduate Diary, will have their fees cancelled (*in accordance to Trent University's Graduate Students Refund Schedule*). To be eligible for a fee exemption, students must have been registered for the term before completion. Students returning from inactive status (e.g. leave of absence) or re-admitted students will be assessed the annual tuition fees at the time of re-entry and there will be a minimum period of registration and payment amounting to one term (even if degree requirements are met before that date). No defence will be scheduled or held without registration being completed before the proposed date of the defence.

INTERNATIONAL STUDENTS

In order to cover fees, books and living expenses, an international student in a graduate school in Ontario will need a minimum of \$25,000 per year. If this amount is not covered by independent means or financial support from the student's own country, and if he/she is therefore in need of fellowship support, the student should be aware of the following facts. Because of government restriction on the money available, students from other countries entering Canada on study permits and proceeding to a graduate school in the province of Ontario are restricted in most cases to teaching assistantships involving no more than 10 paid hours per week. Eligibility for most scholarships and teaching assistantships from university and Canadian sources is restricted to Canadian citizens or permanent residents. However, as noted in the previous section, a small number of Ontario Graduate Scholarships are available to non-Canadian students.

Employment

International students who are registered in full-time study at a degree-granting post-secondary institution are permitted to work on that campus without a permit. "On-campus" is defined as employment in facilities owned, leased or rented by the educational institution. The employer can be the university, faculty, student organization or private contractor providing services to the university and operating on campus. International students have found jobs at the library, colleges (such as Summer maintenance), athletic complex, alumni office, development office, TIP office, food catering company, The Arthur (newspaper), liaison office (campus tours) and as research assistants to faculty.

You must possess a valid permit and if you have not undergone a medical examination, you may be subject to specific terms and conditions.

Before accepting any other employment in Canada (off-campus) you must obtain a permit. Normally this is granted only for a position which cannot be filled by a Canadian resident. There are some exceptions to this (e.g., students will be granted a work permit for work which is a required part of their course of study).

You may also work in an area consistent with your course of study for up to one year following graduation, but you must start within 60 days of the day final marks are released. To receive this type of permit you will require proof of eligibility to graduate, listing the course of study completed plus an offer of employment.

Spouses of full-time students are eligible to accept employment anywhere but must obtain a work permit.

Documentation

Required documentation may vary from country to country. Please visit www.trentu.ca/tip (Trent International Program) and www.cic.gc.ca (Citizenship and Immigration Canada) for details regarding Study Permits, Visas and other related documentation.

Services for International Students

Trent's International Program (TIP) offers counselling in such areas as adjusting to student life in Canada, housing, health insurance, immigration and employment issues, and academic challenges. TIP coordinates a three-day international orientation camp before classes start in September, and a two-day camp for those beginning their studies in January; publishes an International Student Handbook, which gives advice on adapting to Canada; and organizes social and cultural activities, seminars and debates.

Note

- University Health Insurance Plan for International Students is mandatory (see Other Fees, p. 300)

FINANCIAL AID AND RECOGNITION OF ACADEMIC EXCELLENCE

Financial aid for individual full-time graduate students may be available from the following sources:

- Scholarships, fellowships and other merit awards from governmental, industrial and other granting bodies in Canada.
- University entrance awards, academic scholarships, and tuition bursaries.
- Graduate Teaching Assistantships (GTAs) for a maximum of four terms – M.A./M.Sc. (maximum six terms – Ph.D.), normally spanning two (three – Ph.D.) consecutive undergraduate academic years, for teaching and/or laboratory demonstrating.
- Research Assistantships (RAs) with faculty members who hold research grants.
- Loans from the Ontario Student Assistance Program (OSAP).

All student support received through awards, research or graduate assistantships is taxable according to the federal and provincial tax regulations. Tax will be deducted by Trent's payroll department from any payments made to students for assistantships.

Graduate Teaching Assistantships and Research Assistantships administered by Trent University will be paid through the university payroll office, on a monthly basis. Scholarships awarded for the calendar year are ordinarily paid in three equal instalments in September, January, and May, and may be obtained from the Office of Research and Graduate Studies.

The Office of Research and Graduate Studies prepares a booklet annually for use by Trent students (undergraduates and graduates) planning further study. This includes a list of scholarships available and application deadlines. In the case of major scholarship competitions, students currently registered at Trent must meet an earlier deadline set by the University. Application forms and information on certain external scholarships may be obtained from the Office of Research and Graduate Studies. Full-time students entering a second year of graduate study at Trent, or those planning further study at another university, should demonstrate that they have applied for external funding.

Thank You to our Benefactors

The funds which we are able to offer students for financial aid and recognition of academic excellence are the gifts of individuals, corporations and other organizations through annual, campaign and legacy giving programs and through support from various levels of government. We are grateful to our past and current donors for their contributions which benefit our students and support education and research at Trent.

For more information about the Trent University Endowment Fund and named endowment funds please contact:

The Development Office
Telephone: (705) 748-1601
Fax: (705) 748-1605
E-mail: smackle@trentu.ca

Financial Aid Office

Telephone: (705) 748-1524 E-mail: financialaid@trentu.ca
Fax: (705) 748-1629

Manager

Joyce Sutton, Assistant Registrar, Financial Aid & Services

The Financial Aid Office administers the various financial aid programs available at Trent, and provides assistance and advice to students seeking financial aid. Detailed information on financial aid is available through the office located in the Office of the Registrar.

Ontario Student Assistance Program (OSAP)

The Province of Ontario and the Government of Canada provides a number of integrated assistance programs to university students through the Ontario Student Assistance Program.

Student Loans

To qualify for Canada Student Loans portion, the student and/or parents, guardians or sponsors must be Canadian Citizens or Permanent Residents. To qualify for Ontario Student Loans portion, the student must also meet certain residency criteria.

The purpose of the OSAP Student Loans program is to assist full-time (at least 60% course load) students when the financial resources available to them from parents, spouses, Summer work or other sources are insufficient to meet estimated educational costs.

Applications are available electronically at www.osap.gov.on.ca, or by application booklet available through the Financial Aid Office at any university. Although, you may apply for assistance to more than one school, our recommendation is to wait until you have accepted admission, and direct your application to the appropriate school. The Ministry normally does not start processing any OSAP applications until June.

The application deadline for the 2004-2005 academic year is January 30, 2005.

Ontario Special Bursary Plan (OSBP)

Provides a limited number of bursaries to married students, sole-support parents and students with disabilities who study on a part-time basis (less than 60% course load). Tuition, books, travel costs and babysitting to a maximum of \$2,500 per year is available. Applications are available at the Financial Aid Office. The application deadline is the last day of the month in which your program begins.

Child Care Bursary

Available to married students and sole-support parents with three or more children who apply and qualify for OSAP assistance. Applications will be available at the Financial Aid Office at the beginning of each academic session.

Bursary For Students with Disabilities

Available to students who incur disability related educational expenses. Bursaries are available during the whole academic year. Students who are eligible to receive regular OSAP Student Loans, OSBP and Part-Time Canada Student Loans may apply.

Ontario Work Study Program (OWSP)

Funded by the Province of Ontario. Provides part-time jobs on campus during the study period for full-time students (minimum 60% course load) whose financial needs are not met through the loan programs. Applications for these positions will be available at the Financial Aid Office in September.

Special Opportunity Grants and Part-Time Canada Student Loan

Part-time students (registered in less than 60% course load) with demonstrated financial need may qualify for a grant up to \$1,200 from the federal government. If you require additional assistance you may be eligible for a Canada part-time student loan.

Special Circumstances

Students with Disabilities

Trent University provides bursaries for Ontario residents with disabilities who are not eligible for the previous programs. Students are encouraged to contact the Disability Services Office early to discuss their needs and obtain an application. See p. 285 for details regarding students with special needs.

Emergency Short-term Loan Funds

Loan funds are available on a short-term basis to assist needy students meet emergency situations. Among these funds is the Henry and Mary Nokes Fund established by the Cobourg and District Labour Council to honour Mr. and Mrs. Nokes, and augmented by private donors. Funds have also been made available through a joint undertaking of the Trent University Alumni Association, the Trent Student Union (Development Projects Fund) and the college cabinets/councils. A fund has also been established by the Major Bennett Chapter, IODE, Peterborough, Ontario.

Students from Outside Ontario

Some forms of financial aid (noted below) are available only to residents of Ontario.

Canadian students from outside Ontario who require financial aid should consult with officials in their home province to apply for federal and provincial loans and bursaries.

Students from foreign countries are strongly urged to consult with educational authorities and sponsoring agencies in their own country. The Trent International Program (TIP) provides information regarding financial programs for international students.

Bursaries

Unless otherwise noted, bursaries are awarded annually and are available to all graduate students with documented financial need and satisfactory academic achievement.

TUITION BURSARIES

New Graduate Tuition Bursaries

First year graduate students with proven financial need may apply for partial tuition bursaries. Applications are available through the Office of Research and Graduate Studies. Deadline date for submission is February 1. Students must meet Ontario residency requirements.

Returning Graduate Student Tuition Bursaries

Bursaries to assist with partial tuition fees are available to returning Ontario residents. Applications are available at the Office of Research and Graduate Studies. Deadline date for submission is September 30. Students must meet Ontario residency requirements.

IN-COURSE BURSARIES

Bursary funds are intended to assist with educational costs and are administered by the Financial Aid Office. Application forms are available from the Financial Aid Office or the Office of Research and Graduate Studies. Deadline date is January 31.

Ontario Student Opportunity Trust Fund (OSOTF)

In 1996–97 the Province of Ontario established the Ontario Student Opportunity Trust Fund. Fifty percent of this fund is provided by the Province and 50% has been raised through fundraising by the University.

A second phase of OSOTF was introduced in 2003. The trust fund represents an endowment fund. Annual proceeds from investment earnings are available in the form of bursaries to Ontario residents enrolled full-time, part-time or as graduate students, who can prove financial need and whose academic progress is satisfactory. In some instances, academic excellence as well as financial need will be the determining factor.

OSOTF Guidelines

- Students have lived in Ontario for at least 12 months in a row up to the beginning of their full-time post-secondary studies; or
- Students' spouses have lived in Ontario for at least 12 months in a row up to the beginning of the current academic year, and their spouses were not enrolled in full-time post-secondary studies during this 12 month period; or
- Students' parents, step-parents, legal guardians, or official sponsors have lived in Ontario for at least 12 months in a row up to the beginning of their current study period.

Generous donors to Trent University bursary programs have created bursary funds which are available to graduate as well as undergraduate students.

BURSARIES AVAILABLE ONLY TO GRADUATE STUDENTS

AMOD Graduate Bursary (Modelling)

Available to assist graduate students in the Applications of Modelling in the Natural and Social Sciences, based on demonstrated need and satisfactory academic achievement. OSOTF guidelines apply.

Anthropology – Graduate Students' Bursary

Established by Graduate faculty and friends of the Anthropology department established to assist first and second year students in their studies and/or thesis research. OSOTF guidelines apply.

ABS Bennett Bursary

Awarded annually to a female graduate student who has demonstrated leadership and involvement in their community. OSOTF guidelines apply.

Jon K. Grant Graduate Student Ontario Bursary

Established in honour of Jon K. Grant in recognition of his distinguished contribution to Trent University as chair of the Board of Governors, 1984 to 1986. Awarded to a student in the second year of the Master's Program in Canadian Studies and Native Studies. Distinction in cultural, athletic or other community activities may also be considered. OSOTF guidelines apply.

Scotiabank Bursary

Awarded annually to graduate students in any year. OSOTF guidelines apply.

Sceptre Investment Counsel Limited Bursary

Awarded to a full-time student who has made a contribution to the community.

William Thompson Graduate Bursary

Established by the estate of the late William Thompson (1891–1978) of Westwood, Ontario. Awarded to a student registered in a graduate program.

BURSARIES AVAILABLE TO UNDERGRADUATE AND GRADUATE STUDENTS**Eileen Allemang Bursary**

Awarded to a student of Peter Robinson College who has made a contribution to College activities.

Alumni OSOTF Bursary

Established by the Trent University Alumni Association. Awarded to returning student who has made a significant contribution to University life. OSOTF guidelines apply.

Patricia Baxter Anishnabe Kwe Bursary

Established in honour of Patricia Baxter. Awarded to Aboriginal women in their upper year studying science, computer studies/new technologies or Business Administration. OSOTF guidelines apply.

Philip and Annie C. Black Bursary

Established by the late Isadore and the late Morris Black of Peterborough in memory of their father, Philip Black, the first Rabbi in Peterborough, and their mother, Annie.

Bourinot Bursary

Awarded to a full-time student from Peterborough County. Preference will be given to an employee of the Canadian Tire Store in Peterborough or a member of his or her immediate family.

Jacob F. Burnham Memorial Bursary

Established by Daisy McCarrell, a former employee of Trent University. Preference will be given to students majoring in Economics, Business Administration and related fields.

Ron Campbell Bursary

Established by Ron Campbell Enterprises, which operates McDonald's Restaurants in Peterborough and Lindsay. Awarded to students from Victoria and Peterborough Counties enrolled in Trent's Environmental & Resource Studies program.

City of Peterborough Employees' Bursary

Established by the employees of the City of Peterborough. Awarded to a child or spouse of a City of Peterborough employee.

Community Service Bursary

Established by the Quaker Oats Employees' Independent Union (Cereals). Awarded to a full-time student from Peterborough County.

Christopher Greene Bursary

Established by alumni Doug and Maureen Loweth, in honour of History Professor Emeritus, Chris Greene. Awarded to a history student. OSOTF guidelines apply.

Errol Hanbidge Memorial Bursary

Established by his wife, Audrey Hanbidge. OSOTF guidelines apply.

Agneta Holt Bursary

Established by the University Women's Club of Peterborough as a memorial to the late Mrs. Agneta Holt. OSOTF guidelines apply.

Jean Ann Johnston-Gauld Bursary

Established by the family in memory of Jean Ann Johnston-Gauld a part-time student at Trent University from 1982–85. Awarded to part-time students. OSOTF guidelines apply.

James S. Keating Memorial Bursary

Established by his family as a permanent remembrance of James S. Keating, husband of Jean, a former Trent employee and father of Craig ('81).

Principal H. R. H. Kenner and PCVS Faculty Bursary

Established by the PCVS Form 5 graduating class of 1937 in honour of Principal Kenner and their teachers. Support has also come from the class of 1939. Awarded to graduates of secondary schools in Peterborough County.

Lakefield Research Bursary

OSOTF guidelines apply.

Louis and Bess Loftus Fellowship Bursary

Established by the late Barnett David Loftus in memory of his parents. OSOTF guidelines apply.

John C. McDonald Memorial

Established in memory of Professor John C. McDonald former chairman of the Sociology department.

John and Elaine McClintock Bursary

OSOTF guidelines apply.

Métis Bursary

Established through funding initiatives of the Métis Nation of Ontario (MNO), Métis Training Initiatives (MTI) and the Ontario government. Awarded to post-secondary students of Métis ancestry. Students must be residents of Ontario for one year before the start of their post-secondary education. OSOTF guidelines apply.

Norma and Lloyd Parnall Bursary

Established by the family in honour of Norma and Lloyd Parnall. Awarded to Aboriginal women successfully studying in undergraduate or postgraduate programs. OSOTF guidelines apply.

Dennis Patterson Northern Bursary

Established to recognize the visit of the Government Leader of the Northwest Territories in 1990. Awarded to a student from the Northwest Territories.

Dr. Julia Phelps Memorial Bursary

Established in memory of Dr. Julia Phelps, an honorary graduate and long-time friend of Trent. Awarded to a student in the Cultural Studies program. OSOTF guidelines apply.

William B. Reid Native Bursary

Established by William B. Reid. Awarded to Native students.

Setzu Suzuki Bursary

Established by David Suzuki in memory of his mother, Setzu Suzuki. Awarded to a student from the Third World.

Sir Sandford Fleming College Bursary

Established by Fleming College in recognition of Trent's 25th anniversary and to acknowledge the excellent relationship between our institutions. Awarded to a graduate of Fleming College enrolled at Trent University in a full-time or part-time program. Value: full tuition.

Bill and Dorothy Slavin Bursary

Established by members of the Slavin family, in memory of their parents, Bill and Dorothy Slavin. Awarded to a student from a developing country.

David Tapscott Bursary

Established by his family in memory of David Tapscott ('69). Awarded to a student in any year. OSOTF guidelines apply.

Trent Central Student Association Bursary

A gift of the Trent Central Student Association. Awarded to a student in any year who displays academic progress. OSOTF guidelines apply.

Trent University Alumni Bursary

Established by the Trent University Alumni Association. Awarded to returning students who have made a significant contribution to University life.

Trent University S & A Bursaries

Established by the Trent University Alumni Association. Awarded to returning students who have made a significant contribution to University life.

D. R. Walling Family Bursary

Established by the Walling Corporation of Lindsay. Awarded to students majoring in business or environmental studies. Based on fitness/health and community involvement.

P. S. B. Wilson Bursary

Established in honour of Paul S. B. Wilson, Director of Athletics. Awarded to a returning student on the basis of a significant contribution to the athletic program. OSOTF guidelines apply.

EXTERNAL BURSARIES

Many organizations and companies offer bursary assistance to post-secondary students. The following bursaries are administered through the Trent University Financial Aid Office.

Leonard Foundation

Bursaries averaging \$1250. Preference will be given to sons and daughters of clergy, teachers, military personnel, graduates of RMC; members of the Engineering Institute of Canada and the Mining and Metallurgical Institute of Canada. Application deadline is March 15. Applications are available through the Financial Aid Office.

Royal Canadian Legion

Bursary assistance of up to \$1000. Awarded to War veterans and their children and grandchildren, ordinary members of the Legion and their children and grandchildren, associate members of the Legion and their children, and Ladies Auxiliaries members and their children. Awards are determined by the District Bursary Committee. Applications are available at the Financial Aid Office.

Awards

Financial aid through Trent University's award program is designed to acknowledge those students with outstanding academic qualifications and proven financial need. These awards are made possible through the Ontario Student Opportunity Trust Fund. In 1996-97 the Province of Ontario established the Ontario Student Opportunity Trust Fund. Fifty percent of this fund is provided by the Province, and 50% has been raised through fund raising initiatives by the University. The trust fund represents an endowment fund. Annual proceeds from investment earnings are available in the form of awards to Ontario residents enrolled full-time, part-time or as graduate students. (Refer to specific OSOTF residency guidelines listed under bursaries.) Deadline for applications is January 31.

Bagnani Graduate Awards

Established in 1997 by the Dewar Memorial Fund, these annual awards honour the late Professor Gilbert and Stewart Bagnani. Graduate awards will be granted to Ontario students who demonstrate both academic excellence and financial need. Preference will be given to graduate students in classical (traditional) disciplines of the humanities, especially Classics, Archaeology/Anthropology, Ancient History, History, Philosophy and English. OSOTF guidelines apply.

de Pencier Family Award

The gift of business executive, John de Pencier, a long time member of Trent's Board of Governors and chair from 1987 - 1991, and his wife, Marni, Trent parents. Awarded to a student of high academic standing who is in financial need. OSOTF guidelines apply.

Lopes Family Award

Established by Ana P. Lopes, a member of Trent's Board of Governors, in honour of her parents, Antonio F. and Gertrudes M. Lopes, originally of Lisbon, Portugal, in recognition of their interest in politics and current affairs and their leadership and community service within the Portuguese-speaking community of Canada. Awarded to a student in financial need who has demonstrated high proficiency in Western European Studies, with special consideration of Portuguese Studies. OSOTF guidelines apply.

Patterson Award for Aboriginal Language Studies

Established in memory of Sarah D. Patterson (1889-1979); a Mohawk of the Bear Clan who was born at Six Nations and spoke four languages; Mohawk, Cayuga, Tuscarora and English. Awarded to an upper year or graduate student of high academic standing who is in financial need and shows a keen interest in Aboriginal languages.

Petersen Burfield Family Graduate Award

This award has been established by her family to honour the late Margaret (Betty) Petersen. It is available to graduate students in the field of Anthropology. OSOTF guidelines apply.

Robert Darou Norris Prichard Award

Awarded to a full-time Canadian graduate student entering final year of Watershed Ecosystems. Applicants must demonstrate excellent academic achievement and financial need with preference given to residents of the Counties of Haliburton, Northumberland, Peterborough, Victoria and the Regional Municipality of Durham.

Peter L Roach Award

Established to honour Peter L. Roach, Director of Education from 1975 to 1992, in recognition of his years of service to the Peterborough Victoria Northumberland and Clarington Roman Catholic Separate School Board. In selecting the recipient, priority will be given to a student who has studied in the P.V.N.C. Separate School system and who displays academic excellence and financial need. The funding for this award was provided initially by the employees of the P.V.N.C. Separate School Board through the For Tomorrow Campaign and by friends and associates of Mr. Peter Roach. Additional funding was provided by donations to the Ontario Student Opportunity Trust fund. OSOTF guidelines apply.

Websites for External Funding

www.scholarshipscanada.com and www.studentawards.com

Scholarship Lists via World-Wide Web

The Office of Research and Graduate Studies scholarships listing is available at Trent's website www.trentu.ca/gradstudies/scholar.html, along with direct links to granting councils and other agencies. Please note that similar financial aid and/or awards listings are also available at other university sites on the internet.

GRADUATE SCHOLARSHIPS/FELLOWSHIPS – EXTERNAL**Natural Sciences and Engineering Research Council (NSERC) Awards**

Postgraduate scholarships and Canada Graduate Scholarships from the Natural Sciences and Engineering Research Council (NSERC) are tenable in departments offering graduate studies in science. Awarded to students undertaking graduate study and research leading to advanced degrees, and a limited number of postdoctoral fellowships for those wishing to add to their experience by specialized training. Open to Canadian citizens or permanent residents and awarded on the basis of high scholastic achievement and evidence of capacity to do research. Deadline: October. For further information and online application see www.nserc.ca.

Social Sciences and Humanities Research Council (SSHRC) Awards

Master's level Canada Graduate Scholarships, Doctoral Fellowships and Doctoral level Canada Graduate Scholarships from the Social Sciences and Humanities Research Council (SSHRC) are offered each year to Canadian citizens or persons who have obtained landed immigrant status in Canada by December 1. The scholarships and fellowships program aims to develop research skills and assist in the training of highly-qualified academic personnel by supporting students who demonstrate a high standard of scholarly achievement in undergraduate and graduate studies in the social sciences and humanities. The fellowships are tenable at any recognized university in Canada or abroad. Deadline: December. For further information and online application see www.sshrc.ca.

Ontario Graduate Scholarships (OGS)

The Government of Ontario offers up to 2,000 Ontario Graduate Scholarships (OGS) per year which are tenable at the Ontario university of the student's choice. The awards are tenable in all disciplines and the scholars must have a high level of academic achievement. The awards are intended primarily for Canadian citizens as well as those who hold permanent resident status at the time of application; however, up to 60 awards may be made to students who, by the application deadline, have been admitted to Canada as visitors with student authorization. Awards will be for two or three consecutive terms; one-term awards will not be made. Application deadline is in October. All eligible candidates who are interested in studying at Trent are urged to apply for one of these awards. For further information and online application see www.osap.gov.on.ca

Commonwealth Scholarship and Fellowship Plan

Provides opportunities for Commonwealth students to pursue advanced studies in other Commonwealth countries. Awarded to graduates of recognized universities for a period of two academic years and the intervening Summer, and intended to cover the holder's travel, living, and study expenses during the period of tenure. Application forms and full information concerning details of the award may be obtained from the Canadian Scholarship and Fellowship Plan, c/o Canadian Bureau for International Education, 85 Albert Street, Suite 1400, Ottawa, Ontario K1P 5N1, or through the Canadian high commissioner in Commonwealth countries. Persons intending to apply are advised to enquire not later than September, approximately one year before the date of tenure. See also www.scholarships-bourses-ca.org.

GRADUATE SCHOLARSHIPS – INTERNAL

Trent University offers a number of graduate scholarships, awards and bursaries. All new students entering the University are automatically considered for internal awards. No separate application is required.

All University scholarships/awards may be held in conjunction with awards from outside agencies when conditions permit.

Graduate Teaching Assistantships (GTAs)

The Office of Research and Graduate Studies, acting on the recommendations of the Graduate program directors, awards a number of assistantships to full-time graduate students each year. In return for the stipend involved, the students are required to work up to 10 hours per week (on average), generally assisting with some aspect of the undergraduate teaching program. The terms of employment are governed under the Collective Agreement with CUPE Local 3908, Unit 2 and Trent University.

A full-time graduate student may be eligible for support for a maximum of four terms (six terms – Ph.D.), normally spanning two (three – Ph.D.) consecutive undergraduate academic years.

Ontario Graduate Scholarship (OGS) Program “Institutional Awards”

The province of Ontario provides up to ten OGS institutional awards tenable only at Trent University. Only first- and second-year Master's and/or Doctoral students may hold awards. In order to be eligible, a student must meet the eligibility criteria and fulfill all scholarship conditions applicable to candidates in the open OGS competition. Nominees can be those who were on reversion or unsuccessful in the open competition, or have not yet applied. Students who were unranked for an OGS are not eligible.

Institutional awards held at Trent are finalized after results of the open OGS competition are known.

Ontario Graduate Scholarships in Science and Technology (OGSST)

The Ontario Graduate Scholarships in Science and Technology (OGSST) are designed to reward excellence in graduate studies in the areas of science and technology. The scholarships consist of funding from the Ontario Ministry of Training, Colleges and Universities (MTCU) matched by private sector support to the university. At Trent, OGSST awards are matched by the Ivey Foundation and Aramark Canada. Each OGSST will have a value up to \$15,000 annually, or \$5,000 per term. Recipients may not hold other major provincial or national awards. Students must be Canadian citizens or permanent residents, be enrolled in full-time research graduate programs (masters or doctoral level) in science and technology (Watershed Ecosystems, or Applications of Modelling in the Natural and Social Sciences), and exhibit overall academic excellence.

Selection of award winners will be made annually by an Awards Subcommittee of the Committee on Graduate Studies. Award selections will be made in February, at the time of admissions selections. Award information and application forms are available online at www.trentu.ca/gradstudies/scholar.html. Application deadline is normally within the first two weeks of February.

Governor-General's Academic Gold Medal

Awarded to the graduate student who achieves the highest academic standing among those who are convocating, on the recommendation of the Committee on Graduate Studies based on nominations from the graduate programs. Presented each year at Convocation.

Aramark Canada Limited Graduate Scholarship

Awarded annually to a student receiving an Ontario Graduate Scholarship in Science and Technology who is enrolled in the Applications of Modelling program.

Sandi Carr Graduate Scholarship in Anthropology

Established by the Office of Research & Graduate Studies in honour of Sandi Carr, Graduate Studies and Research Officer upon the occasion of her retirement from Trent University. Awarded annually to a deserving graduate student enrolled in the Anthropology M.A. program.

Harold Crabtree Foundation Graduate Scholarship in Canadian Studies

A gift of the Harold Crabtree Foundation. Awarded to a deserving student enrolled in the Canadian Studies Ph.D. program.

Henry Dyce Howitt Environmental Graduate Scholarship

Established from the estate of Henry Dyce Howitt. Awarded to a graduate student studying in the environmental sciences and entering the first year of study at the M.Sc. Level. This scholarship is awarded in conjunction with an Ontario Graduate Scholarship and is subject to the rules of that program.

Henry Dyce Howitt Graduate Scholarship

Established from the estate of Henry Dyce Howitt who died on September 2, 2000. It was his wish to encourage outstanding achievement and academic excellence with this gift. This scholarship is awarded in conjunction with an Ontario Graduate Scholarship and is subject to the rules of that program.

Harley Richards Cummings Graduate Scholarship in Canadian Studies

A gift of his wife, Shirley, honours Harley, a respected educator in the Ottawa public schools and author of *Early Days in Haliburton*. Awarded to a deserving student in the Canadian Studies graduate program.

French American Charitable Trust Scholarship

Established by The French American Charitable Trust in Bermuda. Awarded to a student enrolled in the Watershed Ecosystems Ph.D. program.

Jean Evelyn Graves Graduate Scholarship in Canadian Studies

A gift of her friend, Shirley Cummings, honours Jean who was a secondary school teacher and later was Kingston's first Guidance Counsellor working for the Kingston Board of Education. Awarded to a deserving student in the Canadian Studies graduate program.

Hydro One Ontario Graduate Research Scholarships

These graduate scholarships will support Master's and Ph.D. students in the Watershed Ecosystems graduate program, Master's students in the Native Studies stream of the Canadian Studies and Native Studies degree program and Ph.D. students in the Native Studies Ph.D. program. Preference for the awards will go to students whose studies combine innovative research in native education and improving environmental management practices. The Hydro One Scholarships are matched by OGS funds and are subject to the rules of that program. Scholarships will be awarded for up to two years

Richard Ivey Foundation Graduate Scholarships

Established by the Richard Ivey Foundation. Awarded to graduate students conducting thesis research on terrestrial ecology at the Oliver Ecological Centre of Trent University.

R. B. Johnston Fund for Archaeology

The gift of an anonymous donor, this fund recognizes the contribution of the late Prof. Richard B. Johnston to Ontario archaeology. The fund supports thesis research by graduate students in the Anthropology graduate program. Projects in the archaeology of northeastern North America are preferred, and one or more grants are awarded annually.

Eugene Kuzmin Graduate Scholarship

A gift from the Estate of Eugene Basil Kuzmin of Bobcaygeon. This scholarship is awarded to a deserving student in any graduate degree program.

Malicorne Graduate Scholarship in Modelling

A gift of an alumnus and his wife. Awarded to student enrolled in the Applications of Modelling in the Natural and Social Sciences (AMINSS) program.

Morton Graduate Scholarship in Native Studies

Established in 2003 by Honorary Degree recipient and former president and CEO of Quaker Oats of Canada, David L. Morton and Professor Emeritus, Patricia Morton. Awarded to a deserving student in the Native Studies graduate program. It is awarded in conjunction with an Ontario Graduate Scholarship and is subject to the rules of that program.

Native Studies Ph.D. Scholarships

Awarded to students with high academic standing in the Native Studies Ph.D. program. Students will automatically be considered for these scholarships upon application to the program.

Ian and Margo Nelson Graduate Scholarship in Canadian Studies

Named in memory of Ian and Margo Nelson by their parents Gayle and John Nelson. Awarded to a Ph.D. student in Canadian Studies with a special interest in the history and development of Ontario.

Quaker Oats Company of Canada Limited Graduate Scholarship Program in Canadian Studies

These scholarships (two per year) were established by the Quaker Oats Company of Canada Ltd. Awarded to a deserving student entering the first year of the Canadian Studies Ph.D. program.

Quaker Oats Company of Canada Limited Graduate Scholarship Program in Native Studies

These scholarships (two per year) were established by the Quaker Oats Company of Canada Ltd. Awarded to a deserving student entering the first year of the Native Studies Ph.D. program.

United Steelworkers of America Scholarship

Established by a gift from the United Steelworkers of America. Awarded to a student of Aboriginal descent enrolled in either the Master's or Ph.D. level program, maintaining an academic average of at least 80%. Preference will be given to students studying aspects of labour history or labour studies. The United Steelworkers of America Scholarship is matched by OGS funds and are subject to the rules of that program.

David and Joyce Woods Graduate Scholarship

Established by their children and friends to honour David M. Woods, chairman of the Board of Governors of Trent University from 1975 to 1980, and his wife, Joyce Woods. Awarded to a student enrolled in the Watershed Ecosystems master's program. This was the first graduate scholarship to be established at the University.

STUDENT SERVICES

Graduate Students' Association

All registered graduate students, full- or part-time and including those enrolled under the Trent/Queen's agreement, become, by virtue of the fee paid, a member of the Graduate Students' Association (GSA). This association exists separately from the Trent Central Student Association (TCSA). The executive, which organizes social and informal academic events, consists of five elected officers (president, vice-president, treasurer, secretary/communications officer and senator) and two social directors. Elections take place yearly in April. Graduate students are also represented on the University Senate, Aboriginal Education Council and Graduate Studies, as well as on the committees on Animal Care, Computer Services, Library Services, Interactive Learning Centre, Nature Areas, Technology for Teaching and Learning, Health and Safety, Human Rights, Special Appeals, Educational Development, and Colleges and Student Services. In addition, there are GSA representatives on several important temporary committees and awards committees, such as Teaching Awards, Research (NSERC and SSHRC) and Distinguished Research. Those interested in serving either on the GSA executive or on one of the committees should contact the current GSA executive at gsa@trentu.ca.

Conference fee allowances are made available through the GSA on a semesterly basis.

The aim of these programs is to enhance the social and academic life of graduate students at Trent University by providing opportunities to communicate with each other, and with the entire University Community about issues of particular interest to graduate students.

The Current executive welcomes the participation and assistance of all members.

Other Services and Facilities

Full descriptions on colleges, athletics, health service, computing facilities and the Thomas J. Bata Library are to be found elsewhere in this Calendar or Trent's website www.trentu.ca.

For further information please contact

The Office of Research and Graduate Studies:

Telephone: (705) 748-1011 ext. 1245

E-mail: graduate@trentu.ca

ACADEMIC REGULATIONS

Master's and Doctoral Degree Regulations

Registration

By registering and paying fees, students assume responsibility for understanding and abiding by the regulations and procedures included in this Calendar. Moreover, it is the student's responsibility to establish and maintain communication with their thesis/ dissertation supervisor.

Students whose applications for admission to graduate study have been approved for full- (or part-) time study should present themselves for registration on the dates recorded in the Calendar. Graduate students, full- or part-time, proceeding to a degree must maintain continuous registration in each successive term from the time of initial admission until the end of term during which the requirements for the degree are completed (i.e. successful defence and submission of thesis copies to the Office of Research and Graduate Studies).

Registration consists of the completion of a registration form which requires a statement of the program of studies to be followed for the current year, the name of the student's supervisor, the names of the members of the student's supervisory committee and the thesis topic. If it is not possible to state the thesis topic at the time of registration, the field of research should be indicated. The registration form must be signed by the student's supervisor, the graduate program director and the Graduate Studies Officer.

Failure to Register

Graduate students who fail to register or re-register on the anniversary of their admission and have not been granted an official leave of absence, will be considered to have withdrawn voluntarily from their program.

For subsequent reinstatement, the student must make application to the Office of Research and Graduate Studies including the application fee, after which the program must make a written recommendation, outlining any academic conditions which it deems necessary.

Full-time, Part-time and Inactive status

A graduate student may have active full-time, active part-time, or leave of absence status while enrolled.

Full-time

A full-time student is one who:

- (i) is pursuing studies as a full-time occupation;
- (ii) is designated by the University as a full-time graduate student
- (iii) is geographically available and visits the campus regularly
- (iv) is not regularly employed within the University for more than an average of 10 hours per week for any period for which he/she is registered as an eligible full-time graduate student, and
- (v) in the light of the foregoing identifies him/herself as a full-time graduate student.

Notes

- It is understood that a graduate student may be absent from the University while still under supervision (e.g., visiting libraries, attending a graduate course at another institution, doing field work). If such periods of absence exceed four weeks in any term written approval must be obtained from the Graduate Program Director and the Graduate Studies Officer. Irrespective of this provision, a student conducting experimental work in an external laboratory would not normally be considered as a full-time student except by written permission of the Graduate Studies Officer upon recommendation of the supervisor.
- If the student is employed on a Graduate Teaching Assistantship, the terms of employment are governed under the Collective Agreement with CUPE Local 3908, Unit 2 and Trent University.
- Students who at any time cease to meet all of the criteria for full-time status, but are in good standing and wish to continue with their studies, must change to part-time status. If this change in status takes place during a term, adjustments to time limits and fees are made effective from the start of the next term. Such a change requires the written consent of the student's supervisor and Graduate Program Director.

Part-time**Note**

- Financial circumstances alone are not grounds for a change from full-time to part-time status.

Graduate students requesting "part-time" status:

- (i) must be those employed on a full- or part-time basis (requiring a letter from their employer(s) to indicate a minimum 20 hour work week); or
- (ii) must be those unable to attend on a full-time basis because of documented circumstances or responsibilities (e.g., child care, disability).
- (iii) may not register in more than one full-credit course or equivalent per year.
- (iv) must note that two years of part-time study shall be deemed equivalent to one year of full-time.

Students requesting a transfer from full- to part-time status must also provide approvals from his/her supervisor and Graduate Program Director because of the commitment to provide an extended period of supervision.

Requests for change of status are made effective from the start of the next term (as above). Requests will not be approved retroactively.

Leave of Absence

Students who have valid reasons for not registering for a term (not to exceed one-year) may apply for a leave of absence by:

- (i) completing a Leave of Absence form and submitting it to the Graduate Studies Officer along with their current student card
- (ii) submitting a statement from their thesis/dissertation supervisor that the student will not be on campus (involved in activities related to graduate courses or the thesis) for the duration of their leave of absence, will receive no supervision and will not use any university facilities (i.e., library, laboratories, computer centre, or receive any type of supervision through correspondence). The statement, which must be forwarded to the Graduate Studies Officer, must confirm that no thesis work of any kind will be pursued during the leave.

A leave of absence, if granted, will be for up to a maximum of three terms (or one calendar year), beyond which the student will be withdrawn from their program of study. In this case the student will be required to re-apply, together with a \$25 readmit fee, when ready to resume studies and will be assessed the annual tuition fees at the time of re-entry. There will be a minimum period of registration beyond the leave of absence equal to one term (even if degree requirements are met before that date).

Requests for a leave of absence must be received prior to the registration deadline of the term to be effective for that term. Requests received after the registration deadline will only become effective in the following academic term. Requests cannot be approved retroactively.

Students who request a leave of absence and subsequently withdraw the request will be charged a \$25 administration fee to resubmit the request.

Parental Leave

Students may request a parental leave for up to three terms (or one calendar year). In the case that both parents are graduate students at Trent University the leave may be taken by one parent or shared between both to a maximum of three terms total. Parental leave is separate from, and may be taken in addition to, a standard leave of absence.

Residence Requirements

Full-time Master's degree candidates are required to spend a *minimum* of one year on campus as full-time students after completion of an Honours program. Full-time Doctoral degree candidates are required to spend a *minimum* of two years on campus as full-time students after completion of a Master's program. For part-time graduate students two years of part-time study shall be deemed equivalent to one year of full-time study.

Time Limits

Time limits listed here are the maximum allowed for all graduate programs at Trent University. Individual programs may have their own time limit regulations. Please see the program sections for details.

The maximum time allowed to complete all requirements for the Master's degree from initial registration is three years for a full-time candidate or five years for a part-time candidate. The maximum time allowed to complete all requirements for the Doctoral degree from initial registration is five years for a full-time candidate or ten years for a part-time candidate.

tration is five years for a full-time candidate or nine years for a part-time candidate. (Note: see regulations pertaining to full-time/part-time status.)

When students change status from full-time to part-time (or vice-versa) the time remaining to complete degree requirements will be adjusted with one term of full-time study being equivalent to two terms of part-time study. Such adjustments will take effect at the start of the next term. In all cases, the total time to complete all degree requirements will not exceed five years (Master's) or nine years (Doctoral).

In the case of full-time students, the completion of course work is an absolute requirement by the end of two years (Master's), or three years (Doctoral) in order to continue in the program.

Extension of Time Limits

No extensions of the prescribed time limits will be granted except under extraordinary circumstances. In such instances, a time limit extension request form must be completed by the student in consultation with the supervisor and submitted to the Graduate Program Director. If the director supports the request, a recommendation will be referred to the Dean of Research and Graduate Studies for approval.

Withdrawal from the University

A student who wishes to withdraw from the University must send a signed, dated letter to the Office of Research and Graduate Studies, copied to the Graduate Program Director and the thesis/dissertation supervisor.

Once the Office of Research and Graduate Studies is in receipt of the letter of withdrawal, along with a current student card, fees will be adjusted accordingly (following Trent University's Graduate Refund Schedule).

A student who withdraws without providing a letter will not be eligible for any refund of fees paid nor exemption from fees.

Students who withdraw or change their status to part-time before the end of term will be required to repay any scholarship funds previously paid to the student.

The Trent Graduate Student Identification card must be returned to the Office of Research and Graduate Studies at the time of withdrawal.

College Affiliation

Every student is required to have a college affiliation at Trent.

Full-time graduate students are normally associated with either Champlain College or Traill College, but may request to be assigned to another residential college. Part-time graduate students may request to be assigned or transferred to Julian Blackburn College.

The colleges sponsor guest lectures, sports and social activities, and have common areas and other facilities for resident/non-resident students.

Off-Campus housing

Visit www.trentu.ca/housing.

Supervision

A supervisory committee for each graduate student shall be named by the graduate program to which the candidate is admitted. It shall consist of the thesis supervisor and at least two other faculty members who meet the Office of Research and Graduate Studies and the program requirements, with the supervisor as committee chair.

The role of the committee shall be:

- (i) to ensure that reasonable progress is being made by the student in his/her research and course work. The supervisor shall submit a report on this progress to the Graduate Studies Officer at the end of each Winter session.
- (ii) to approve the thesis/dissertation topic and any prescribed work.
- (iii) to recommend to the Graduate Studies Officer appropriate action (withdrawal, further research, or course work) in light of the student's progress.
- (iv) to suggest the membership of the thesis examining committee when the final draft of the thesis/dissertation is in hand.

If a student's supervisor expects to be absent from the University for an extended period of time (i.e. two months or more) it is his/her responsibility either to make suitable arrangements with the student and the program for the continued supervision of the student, or to request the program to appoint another supervisor. Such arrangements must be communicated in writing to the student with a copy to the Dean of Research and Graduate Studies before the supervisor leaves the University.

Guidelines for graduate programs, graduate students, faculty and the Committee on Graduate Studies are included in the *Graduate Students' Handbook* downloadable from the Graduate website: www.trentu.ca/gradstudies/PDFs/handbook.pdf.

Academic, Research and Thesis/Dissertation Requirements

Normally a candidate for a Master's/Doctoral degree will undertake research and write a thesis. In this document, students should give evidence that they have made a logical and intelligent approach to the selected problem and the language of the thesis/dissertation should be clear and precise. The thesis should be as original as possible. However, the goal of originality should not be stressed to the extent that it precludes the examination of old subjects in new ways; nor should it elevate the "undone" for its own sake, lest the obscure and trivial be emphasized. Note: All research conducted under the auspices of Trent University by faculty, staff, or graduate students, funded or unfunded, that involves human subjects require approval by the Research Ethics Committee of Trent University.

In exceptional cases, for a Master's degree only, the thesis may be replaced by other appropriate course work. When the degree is taken by course work, a comprehensive examination may be required.

Although a thesis/dissertation may be submitted at any time, candidates should note the thesis submission deadlines for the Spring convocation in the academic Calendar. The thesis examination process normally takes 10 weeks, with a longer period depending on availability of examining committee and/or corrections required.

Courses

Normally a student will be required to complete, with at least a second class standing (B-/70 percent), no fewer than two full graduate courses. A program may prescribe additional graduate courses and the student may be required or permitted by the program to take courses in addition to those prescribed for credit. Subject to a review of the candidate's competence in his/her major subject, a candidate may be permitted to take one course in another department/program.

Undergraduate Courses Taken for Graduate Credit

The number of undergraduate courses or combined courses in which undergraduate students predominate cannot exceed 1/3 of the total course requirement for the degree.

Course Registration, Adding or Dropping Courses

All students must submit a Course Registration Add/Drop Form to the Office of Research and Graduate Studies in September to register for classes. The form must be signed by the course instructor, the student's supervisor (if applicable) and the program director. Any subsequent changes (Add/Drop) during the academic year must be submitted using the same process as above.

Audit Policy for Graduate Students

Upon the recommendation of his/her supervisor, and with the permission of the Graduate Studies Officer, a graduate student may register to audit the equivalent of one full-credit course in any graduate or undergraduate program at Trent University without being assessed any additional fees. Courses taken for audit will not count for credit towards the student's graduate degree program, nor will the student be allowed to write final examinations or receive grades for courses which are audited. Courses which are audited will be recorded on the student's transcript and the term "AUD" will appear in lieu of a grade. It is the student's responsibility to obtain permission from the course instructor to audit.

Grading System for Courses

The minimum passing grade for required graduate courses is second class standing (B-/70%). Since June 1982, the following grading scheme has been in effect:

A+ 90 – 100	B+ 77 – 79	F 0 – 49
A 85 – 89	B 73 – 76	
A- 80 – 84	B- 70 – 72	

In addition to the above, the following symbols may also be used on grade reports. These symbols are also used on the academic transcript of students: AEG (Aegrotat Pass); DRP (Course Dropped); AUD (Audit Course); WDN (Withdrawn); INC (Incomplete).

Aegrotat Standing and Incomplete Standing

Petitions for special consideration because of sickness or misfortune at any time during the academic session should be sent to the Graduate Studies Officer as soon as possible, together with medical certificates or other evidence. The University may grant aegrotat standing, or permission to write special examinations, but because aegrotat standing must be based on the achievements of the student throughout the whole of the academic year, it is not appropriate to request such standing as a result of prolonged illness. (See also withdrawal section.)

Incomplete standing will be granted only in cases where a student is unable to complete in proper time the work requirement of a course for reasons beyond the student's control such as illness, physical or emotional disability, loss of or damage to work already completed or in progress, or adverse seasonal effects on field or laboratory projects. Failure by a student to organize the workload in a course will not in itself be considered an adequate reason. Students wishing temporary incomplete standing at the end of a course must petition through the program involved and, where possible, properly support and document the reasons.

The deadline for submission of final grades for incomplete courses is August 31 for full courses and Fall and Winter half courses, and December 31 for Summer courses. Any further extensions must be recommended by the program director and approved by the Dean of Research and Graduate Studies.

Incomplete standing should not be confused with aegrotat standing, which applies only in cases where students are unable, through similar physical or emotional disability, to write or perform in final examinations.

Academic Dishonesty Policy

(see p. 16)

Language Requirement

M.A. and Ph.D. theses/dissertations will be written and defended in English (or in French, subject to individual program's policy/practice), unless the Dean of Research and Graduate Studies, acting on the recommendation of the Director of the Graduate program involved, grants an exception to this rule. The Dean must take into account:

a) the relevance of this language to the content of the thesis/dissertation, and b) the availability of Trent graduate faculty members fluent in the language (both verbal and written) who can supervise the thesis/dissertation, and c) the availability of External and Internal Examiners fluent in the language (both written and verbal) who can effectively participate in the thesis/dissertation examination. Application to defend in a language other than English or French must be submitted to the Dean of Research and Graduate Studies by the Program Director at least one (1) year in advance of the proposed date of the thesis/dissertation defence. In any case, the Title and Abstract of the Thesis/ Dissertation must also be provided in English.

Grade Reports

Grades for course work will be submitted by the program on the completion of the course. Students will be provided with an academic summary at the end of each academic year.

Unsatisfactory Work

On the recommendation of the program, approved by the Dean of Research and Graduate Studies, a student whose work is unsatisfactory may at any time be required to withdraw from the University. Students should note that individual programs may have criteria beyond those listed below. Please refer to the program section of the calendar for further details.

Unsatisfactory work includes the following:

- course work receiving a final grade lower than B- (70%)
- course work not completed within the specified timeframe

- failure to maintain satisfactory progress in research and/or thesis work as determined by the supervisory committee.

Appeals

Appeals procedures for graduate students parallel those for undergraduates. (see pp. 16, 20) In general, the procedures emphasize consultation and co-operation among the individuals most intimately concerned with any problem, while still allowing for an impartial review of difficult cases. Thus, problems concerning individual courses should be discussed first with the instructor, those concerned with course programs should be discussed with the student's supervisory committee, and problems with the application of program or University regulations should be brought to the attention of the Graduate Program Director and the Graduate Studies Officer. A review is accomplished by the impartial body with the best knowledge of the particular problem, e.g., the Graduate Program Director, the Committee on Graduate Studies, or, in exceptional cases, the Special Appeals Committee.

Ontario Visiting Graduate Student Plan

Under certain circumstances it is permissible for a student admitted to a degree program and registered at one Ontario university to enroll in approved credit courses at another university. Credit will be granted only if written permission is received from the Dean of Research and Graduate Studies and the Graduate Program Director before registration for the course work. Application forms are available on-line at www.trentu.ca/gradstudies/pdfs/ovgsp.pdf

Principles Governing Submission and Examination of Theses/Dissertations

1. Submission of thesis/dissertation for examination

- 1.1 Depending on program requirements at least four copies of the thesis/dissertation, typed in conformity with Appendix VI of the current *Graduate Students' Handbook*, shall be deposited with the Graduate Program Director.
- 1.2 Supervisory Committee members shall review a complete typed version of the thesis/dissertation and send a signed "Pre-Exam" form to the Graduate Program Director verifying that the thesis/dissertation is of sufficient quality to proceed to formal examination.

2. Examining committee

- 2.1 After the supervisory committee has confirmed that the thesis/dissertation may proceed to examination, the supervisor identifies three potential external examiners to participate in the thesis examination and defence. The Examining Committee is named by the Graduate Program Director, in consultation with the Dean of Research and Graduate Studies, and the date, place and time of the defence determined.
- 2.2 The Examining Committee consists of a chair plus three to five members, of whom at least one must be from outside the university.
- 2.3 The candidate's supervisor is a member of the Examining Committee and any or all members of the Supervisory Committee may be named as members of the Examining Committee, subject to the policy of the program concerned.
- 2.4 The external examiner must not have any affiliation with the university or the candidate that might be construed as creating a conflict of interest.

3. Thesis/dissertation examination

- 3.1 Copies of the thesis/dissertation shall be distributed amongst the Examining Committee by the Graduate Program Director *at least three weeks* before the scheduled date of the oral, along with a covering letter from the Graduate Dean explaining the status of the thesis and the range of options for its disposition.
- 3.2 A "Pre-Oral Defence" form is supplied on which each examiner should verify whether they recommend that the oral examination should proceed. These forms must be returned to the Graduate Program Director at least one week before the scheduled date of the oral.
- 3.3 A negative response by any member of the Examining Committee will result in cancellation of the defence and return of the thesis to the student and supervisory committee.

4. Defence

- 4.1 The thesis/dissertation will be defended by the candidate in an oral examination before the Examining Committee. In the examination candidates will be required to give evidence that they have a thorough knowledge of the field in which they have been working.
- 4.2 The defence shall be scheduled within a period of no fewer than three, and no more than six, weeks from the date of approval of the submitted thesis by all members of the Supervisory Committee (see 1.2).
- 4.3 All graduate thesis/dissertation defences will be conducted on the Trent Campus in Peterborough with the examining committee and the candidate physically present at the examination. Under exceptional circumstances, the Dean of Research and Graduate Studies, acting on the recommendation of the director of the graduate program involved may permit some members of the examining committee and/or the candidate to participate by video or teleconference. Requests for this exam status must be submitted by the Program Director to the Dean of Research and Graduate Studies at least one month in advance of thesis/dissertation defence.
- 4.4 The Examining Committee, and the defence examination, will be chaired by a person appointed by the Graduate Program Director.
- 4.5 A quorum consists of the external and two other members of the examining committee, not including the chair.
- 4.6 The parties concerned may agree upon a postponement and the examination rescheduled as soon as possible. If the external examiner cannot be present, the defence is postponed automatically unless arrangements can be made to the satisfaction of the Graduate Dean. The candidate shall not be penalized unduly by a postponement.
- 4.7 Subject to the policy of individual graduate programs, any member of the university is free to attend an oral thesis defence examination.
- 4.8 The chair will give priority to questions from members of the Examining Committee, and will adjourn the examination when the Examining Committee decides that further questioning is unnecessary.
- 4.9 The deliberations of the Examining Committee are held in camera. That is to say, only appointed members of the Examining Committee are present at this stage.
- 4.10 It is the responsibility of the chair to see that a report on the examination is prepared before the committee adjourns.
- 4.11 The voting is to be based on a simple majority.
- 4.12 Five recommendations are open to the Examining Committee:
 - (i) the thesis is approved as it stands, or
 - (ii) the thesis is approved provided certain minor revisions are made, or
 - (iii) the thesis is approved provided certain major revisions are made, or
 - (iv) the thesis is not approved as it stands but may be resubmitted, and re-examined by some or all of the Examining Committee (this may or may not involve another oral defence), or
 - (v) the thesis is not approved.
- 4.13 If revisions are required, each member of the Examining Committee must provide a written list of required revisions to the Graduate Program Director immediately following the oral. Minor revisions are defined as corrections which can be made immediately to the satisfaction of the supervisor. Major revisions are defined as corrections requiring structural changes, or other substantive revision. When a thesis is accepted with major revisions, a precise description of the modifications must be included with the Examining Committee's report. It is then the responsibility of the candidate's supervisor to demonstrate to the Examining Committee that the required revisions have been made.
- 4.14 If the Examining Committee is not prepared to reach a decision concerning the thesis at the time of the thesis defence, it is the responsibility of the chair to determine what additional information is required by the committee to reach a decision, to arrange to obtain this information for the committee, and to call another meeting of the committee as soon as the required information is available. It is also the chair's responsibility to inform the candidate that the decision is pending.

5. Final submission

- 5.1 The Graduate Program Director, in consultation with the thesis supervisor, must verify that appropriate corrections have been made, and then submit a summary report of the thesis defence and examination to the Office of Research and Graduate Studies.
- 5.2 An approved thesis/dissertation may be submitted at any time following the oral defence. However, candidates wishing to graduate at Spring convocation should refer to the deadlines for submission of final copies of successfully defended thesis/dissertation. Candidates not meeting these deadlines are required to re-register until the thesis has been formally submitted and approved by the University.
- 5.3 The formal submission of the thesis/dissertation to the University is made to the Graduate Studies Officer. At this point, the thesis should be in its final typed version, but only the original copy should be submitted. The Graduate Studies and Research Officer checks through the thesis/dissertation with regard to format and then seeks final approval from the Committee on Graduate Studies. If there are any discrepancies in format, the student will be contacted by the Graduate Studies and Research Officer.
- 5.4 After the thesis/dissertation has been formally approved, the candidate submits the required copies and pays the cost for binding and microfilming.

6. Microfilming of thesis/dissertation

- 6.1 When the thesis is submitted, the candidate is required to complete a "Non-Exclusive Licence to Reproduce Theses/Dissertations" (Form NL/BN91 [90-09]). This gives consent for the thesis to be microfilmed by the National Library of Canada. There is a fee for this service and the candidate is billed for this at the time the final approved thesis/dissertation is submitted.

7. Binding of thesis/dissertation

- 7.1 Theses must be bound in Trent green with front cover and spine writing in gold. Binding arrangements are made through the Office of Research and Graduate Studies. Students are required to pay binding and microfilming costs at the time of final submission. The thesis/dissertation will not be sent for binding or microfilming until fees have been paid.

8. Copyright regulations

- 8.1 For information concerning thesis/dissertation borrowing and copyright law, please refer to Appendix IV of the current *Graduate Students' Handbook*, available on the website: www.trentu.ca/gradstudies/PDFs/handbook.pdf

Notes

- Arrangements and expenses for typing the thesis are the responsibility of the student.
- Subject to the approval of the program concerned, a candidate may write his/her thesis/dissertation and be examined in French.
- The current *Graduate Students' Handbook* available on the Office of Research and Graduate Studies website: www.trentu.ca/gradstudies/pdfs/handbook.pdf, includes a detailed guide on the preparation of theses/dissertations.

PROGRAMS

M.A. Program in Anthropology

Telephone: (705) 748-1011 ext. 1343

Fax: (705) 748-1613

E-mail: anthro@trentu.ca

Web: www.trentu.ca/anthropology

The M.A. program in Anthropology is focused on the fields of archaeology, ethnohistory, and art. Areas of concentration within the program include: 1) the paleoecology, archaeology and ethnohistory of Canada, Mesoamerica and South America; Old World prehistory; archaeological method and theory; and Canadian historical archaeology; 2) the cross-cultural relationships between and among art (broadly defined), architecture, social organization, gender, politics, values, religion, economy and technology. Other fields of interest can occasionally be accommodated in collaboration with faculty e.g. bioarchaeology, with an emphasis on osteology and palaeopathology. In addition to providing a thorough grounding in anthropological theories and research methods as a preparation for continuing study at the Ph.D. level, our program produces graduates with sufficient depth and breadth of outlook to meet the need for resourcefulness, versatility and adaptability in modern society.

Graduate Program Director

Gyles Iannone, B.A. (Simon Fraser), M.A. (Trent), Ph.D. (U London)

Faculty and Research Areas

Anthropology

P. F. Healy, B.A. (California-Berkeley), M.A., Ph.D. (Harvard), *archaeology, New World archaeology, Mesoamerica and lower Central America and the Caribbean*. **H. S. Helmuth**, D.Sc., Dr.Habil. (Kiel), *physical anthropology, osteology; Germany, North America, Maya*. **G. Iannone**, B.A. (Simon Fraser), M.A. (Trent), Ph.D. (U London): *archaeological method and theory, social complexity, archaic states (comparative), Mesoamerica, New World archaeology, heritage management, archeology and popular culture*. **S. M. Jamieson**, B.A. (McMaster), M.A. (Manitoba), Ph.D. (Washington State), *Northeastern and Boreal archaeology and ethnohistory, sociopolitical evolution, lithic analysis, interaction theory, historical archaeology*. **A. Keenleyside**, B.A. (McMaster), M.A. (Alberta), Ph.D. (McMaster), *Skeletal biology, palaeopathology of northern Indigenous populations of Canada and Alaska, Greek colonial populations of the Black Sea*. **M. Munson**, B.A. (Miami U.), M.A., Ph.D. (New Mexico): *Aboriginal art; gender; identity, group relations; rock art, ceramics; Southwest*. **M. J. Tamplin**, B.A. (Toronto), M.A. (London), Ph.D. (Arizona), *paleoecology, typology, computer applications, Boreal Forest, Europe, Africa*. **J. R. Topic**, M.A., Ph.D. (Harvard), *archaeology, ethnohistory, complex societies, spatial analysis, Peru, South America*. **J. M. Vastokas**, M.A. (Toronto), Ph.D. (Columbia), *anthropology of art, material culture, art and architecture of Europe and the Americas; Northwest Coast, Arctic, Northeast*.

Ancient History & Classics

J. Moore, B.A. (Wilfred Laurier), M.A. Ph.D., (McMaster), *Classical Archaeology, Roman Empire, North Africa*.

Conjunct Professors

C. Oberholtzer, M.A. (Trent), Ph.D. (McMaster), *Aboriginal art, Subarctic, Cree*. **D. M. Pendergast**, B.A. (California-Berkeley), Ph.D. (UCLA), *Maya archaeology-Belize, Caribbean and historic archaeology, museology*. **D. R. Stenton**, B.A. (Windsor), M.A. (Trent), Ph.D. (Alberta), *Thule culture winter demography in Upper Frobisher Bay, archaeology of inland hunting systems*. **K. M. Stewart**, B.A. (British Columbia), M.L.S., M.A., Ph.D. (Toronto), *Quaternary faunas and environment in Canada, evolution and distribution of aquatic faunas in Africa, reconstruction of tertiary/quaternary environments in Canada/Africa, early hominid behaviour and subsistence patterns*. **P. L. Storck**, Ph.D. (Wisconsin), *peopling of the New World, paleo-Indian cultures, environmental archaeology, archaeological theory, typology, replicative flint knapping and lithic technology, ethnoarchaeology of hunter-gatherers and related site formation processes*.

Regulations

The general regulations and requirements of Trent University for the M.A. degree apply to graduate study in Anthropology. Students are admitted into the program once a year for studies beginning in the following September. Applications should be received by February 1 to be considered for admission and funding. To be eligible for admission, the applicant must possess a joint or single Honours B.Sc. or B.A. degree or equivalent in Anthropology or a related field, with

at least an upper second class standing (B+, 77%). Applicants to the program are expected to have a grounding in appropriate research methodology. They may be required to take an undergraduate course deemed necessary to their program of graduate study, e.g., *Anthropology 300* or *310* or *Anthropology – Canadian Studies – Native Studies 253*.

Candidates who have fulfilled the admission requirements will be required to take at least three graduate courses, including *ANTH 510* and normally *550*. Full time students are normally required to complete these courses in their first year of study; part time students are normally required to complete their course work in the first two years of study. The number of undergraduate courses allowed for credit at the graduate level cannot exceed 1/3 the number of required courses for the program. In consultation with their supervisors students select and research a problem on an approved topic within one of the fields and areas listed above, and present colloquia and write a thesis on this research. Students are subject to a review of their performance at the end of each academic year. Candidates must maintain at least a second class standing in their work and must pass an oral examination in defence of their thesis. There is no formal language requirement but the supervisory committee will require each student to demonstrate (to the satisfaction of the supervisor) an acceptable capacity to read in a language or languages considered necessary for purposes of research. In addition, students may be expected to show adequate background knowledge in a related discipline, e.g. art history. Expected time to completion for the Anthropology M.A. program is two years for full-time, four years for part-time.

Unsatisfactory Work

In all course work the lowest passing grade is a B- (70%). A final grade standing at less than a B-level will be assigned a grade of F and will preclude continuation in the anthropology graduate program. Unsatisfactory thesis work, which includes lack of progress in research, thesis or portions of a thesis not submitted within a certain timeframe, or not meeting an approved plan of study, will also preclude continuation in the anthropology graduate program. In all of the above instances, for the student to be reinstated and allowed to re-register they must petition their supervisor and the graduate program director, and receive final approval from the Graduate Studies Committee.

FINANCIAL SUPPORT

Graduate Assistantships

All students admitted will be placed in competition for Graduate Teaching Assistantships, which involve a maximum of four terms, normally spanning two consecutive undergraduate academic years, of teaching and related work within the department. Most eligible students receive some form of financial aid.

External Funding

All students contemplating application to the M.A. program in Anthropology at Trent are urged to apply for an Ontario Graduate Scholarship as well as to additional external (non-university) funding agencies. Applications for OGS materials are available from the Office of Research and Graduate Studies at Trent University.

Further Information

For further information write to the Graduate Program Director of the Anthropology department.

COURSES AVAILABLE TO GRADUATE STUDENTS: ANTHROPOLOGY (ANTH)

Not all courses are available every year.

ANTH 510 – Method and theory in archaeology

(Required) An examination and evaluation of major theories and methods and their relationship to problems in archaeological analysis and interpretation. Emphasis will be placed on recent advances and their implications for the development of archaeology. *G. Iannone and S. Jamieson*

ANTH 520 – Selected themes in Canadian archaeology

Research-oriented investigations into the archaeological record of Central, Eastern and Northern Canada and adjacent areas. Topics will vary according to interests of staff and students, but will include a review and analysis of regional methodological and theoretical approaches. *S. M. Jamieson and M. J. Tamplin*

ANTH 525 – Problems in North American archaeology

Research topics will vary according to interests of staff and students, but will focus on the culture history and process of a selected region. Emphasis will be placed upon methodological and theoretical approaches. *S. M. Jamieson and M. J. Tamplin*

ANTH 530 – Problems in Mesoamerican archaeology

Review of the long and variegated history of human occupation in Mexico and Central America. Problems include the rise, the structure and the fall of complex societies, cultural ecology, the nature of cultural frontiers, and other related issues of Mesoamerican prehistory. *P. F. Healy*

ANTH 540 – South American archaeology and ethnohistory

South American prehistory and ethnohistory with a focus on the development of social, political and economic organization in a wide variety of environments. Factors such as warfare, trade, migration, craft production, subsistence, ritual and ideology are considered. Emphasis is given to Central Andean civilizations, though other regions are considered. *J. R. Topic*

ANTH 550 – Research design

(Normally Required) This course is aimed at developing a series of scholarly skills. Readings, seminars, and assignments will focus on a number of topics, including: the nature of research, ethics, writing skills, sampling and research design, research and grant proposal writing, publishing, peer review, and the presentation of conference papers. *G. Iannone*

ANTH 555 – Problems in Old World archaeology

Archaeological data and approaches from the Old World are employed to explore cultural problems common to all areas of the world. Research topics will vary from year to year. *M. J. Tamplin*

ANTH 560 – Paleoecology of the Americas

This course examines the biology and ecology of prehistoric populations in various environmental and cultural settings. *H. S. Helmuth and M. J. Tamplin*

ANTH 575 – Word and image in cross-cultural perspective

An exploration of the relationship between visual and verbal systems of communication from the Upper Paleolithic to the postmodern West. The course aims to delineate and to account for cross-cultural similarities and/or differences in especially visual narratives, whether in meaning or function these be mythical, historical, legendary, biographical, liturgical, self-expressive or propagandistic. *J. M. Vastokas*

ANTH 580 – Anthropology of art, architecture and material culture

The development, character and interpretation of prehistoric, historic and contemporary art, architecture and everyday objects in cross-cultural perspective from the point of view of symbolic, semiotic and dialogic anthropology. Emphasis varies from year to year but fields of most interest include Aboriginal North America, the circumpolar northern hemisphere, rock art and the industrialized West. *J. M. Vastokas*

ANTH 590 – Special topics

Occasional offerings in response to student interest and faculty availability. *Staff*

M.A. and M.Sc. Programs in Applications of Modelling in the Natural & Social Sciences

Telephone: (705) 748-1011 ext. 1225

Fax: (705) 748-1652

E-mail: aminss@trentu.ca

Web: www.trentu.ca/aminss

Applications of Modelling in the Natural & Social Sciences is an interdisciplinary program which provides for study towards an M.Sc. or M.A. degree in the application of techniques and theory of modelling in the natural sciences and social sciences. It encompasses the following traditional disciplines: Biology, Chemistry, Computer Science, Economics, Environmental Science, Geography, Mathematics, Physics, Psychology and Sociology. The program is designed to overcome some of the barriers to interdisciplinary collaboration by bringing together, at the graduate level, students who are actively applying modelling techniques in their thesis research in a broad range of disciplines. The research is in the social and natural sciences, and in fields in which Trent has demonstrated strong research performance. Although it is oriented towards quantitative models, utilizing computational, mathematical or statistical techniques, it is discipline-based and is not a program in applied mathematics. It has three primary objectives:

1. The teaching of fundamental and common analytical modelling techniques required for research in a large number of quantitative fields.
2. The cross-fertilization that comes from sharing ideas with researchers in other disciplines, and the development of the communication skills required for this to occur
3. Sufficient training of the student in his/ her chosen discipline, including coursework and a research thesis, to permit progression to a disciplinary Ph.D. program.

Graduate Program Director

K. Abdella, Ph.D. (Western Ontario), *atmospheric modelling*

Faculty and Research Areas

Chemistry

H. Hintelmann, Ph.D. (Hamburg), *fate of metals in the environment*. **D. Mackay**, Ph.D. (Glasgow), *environmental transport modelling*. **K. B. Oldham**, Ph.D., D.Sc. (Manchester), *electrochemistry*. **J. M. Parnis**, B.Sc., Ph.D. (Toronto), *matrix isolation spectroscopy and gas-phase reaction*. **I. Svishev**, Ph.D. (Moscow), *molecular simulations and physical atmospheric chemistry*.

Computer Science/Studies

R. T. Hurley, B.Sc. (New Brunswick), Ph.D. (Waterloo), *distributed systems*. **J. W. Jury**, M.Sc., Ph.D. (Toronto), *statistical process control, new technology detectors of antipersonnel landmines, hardware and software improvements of medical gamma cameras for human diagnostic radiology*. **W. Feng**, B.Sc. (Hebei), M.Sc. (Shanxi), Ph.D. (Glasgow), *performance analysis of computer systems*. **B. Patrick**, M.Sc. (Queen's), Ph.D. (McGill), *parallel processing*

Economics

B. Cater, Ph.D. (York), *health and safety*

Environmental & Resource Science/Studies

W. F. J. Evans, M.A., Ph.D. (Saskatchewan), F.R.S.C., *ozone depletion, global warming*.

Geography

P. Lafleur, M.Sc. (Trent), Ph.D. (McMaster), *boundary-layer climatology*. **C. L. McKenna Neuman**, Ph.D. (Queen's), *wind erosion*.

Mathematics

K. Abdella, Ph.D. (Western Ontario), *atmospheric modelling*. **B. Zhou**, Ph.D. (South Carolina), *combinatorics and graph theory*.

Physics

W. A. Atkinson, M.Sc. (Alberta), Ph.D. (McMaster), *condensed matter theory and computation*. **J. W. Jury**, M.Sc., Ph.D. (Toronto), *subatomic physics*. **A. J. Slavin**, M.Sc., (Toronto), Ph.D. (Cambridge), *structure and reactivity of solid surfaces*. **R. Wortis**, Ph.D. (Illinois), *high temperature superconductors*. **D. Patton**, Ph.D. (UVic), *observational astronomy, galaxy evolution, galaxy mergers*.

Psychology

J. D. A. Parker, B.A. (Simon Fraser), M.A., Ph.D. (York), *stress and coping, personality and psychopathology*. **G. T. Reker**, B.A. (McMaster), M.A.Sc., Ph.D. (Waterloo), *measures of personal meaning in the elderly*. **E. Scharfe**, Ph.D. (Simon Fraser), *attachment across the life span*. **C. T. Smith**, Ph.D. (Waterloo), *relationship between sleep and memory*. **L. J. Summerfeldt**, Ph.D. (York), *personality and psychopathology*.

Conjoint Professors

R. Bar-On Ph.D. (Rhodes, South Africa), *measurement of emotional and social competency, multivariate statistics and psychometrics, psychometric tools for measurement of emotional and social competency*. **G. Sitarenios**, Ph.D. (York), *psychological testing instruments (Multi-Health Systems, Inc.)*. **L. Szirmay** (Emeritus), M.S. (Detroit), M.E. (Iowa), Ph.D. (Denver), *separation of gaseous pollutants*

Regulations

The general regulations and requirements of Trent University for the M.Sc. or M.A. degree apply to this graduate program. Students are normally admitted into the program once a year for studies beginning in the following September. The normal requirement for admission into this program is an upper second class (77% or better) (B+ at Trent) standing or its equivalent, in a joint or single Honours B.Sc. or B.A. degree in one of the traditional disciplines (see above). Before acceptance, a core faculty member must have been identified who will supervise the

student's work. Prospective students must have a university course in differential and integral calculus, and one in probability and statistics or the equivalent. Students will also have some familiarity with linear algebra, and be capable of programming at an elementary level in at least one computational language. In addition, a course in either differential equations or advanced statistics is required, depending on whether the student's area of research will be mathematics or statistics based. Students are involved both in course work and thesis research in their home discipline and in interdisciplinary study. Coursework in the foundations and methods of quantitative modelling and in their home discipline consists of about one-third of the work towards the degree. Each student must satisfactorily complete at least four one-term modelling courses, consisting of two courses in the foundations and mathematical aspects of modelling, and two courses in the home discipline. The required course work is normally completed in two terms, allowing the Summer sessions and the entire second year to be devoted to uninterrupted research. Students also participate in an interdisciplinary seminar on modelling and make one presentation each year. In this seminar the student discusses, in a way comprehensible to the audience, the system being modelled, the model developed and the means of validation of the model; here the emphasis is upon the modelling process itself rather than on the relevance of the results to the discipline of the research. Through this seminar the students develop the skills required to communicate with researchers outside their own discipline, and develop a perspective on their own and other disciplines not obtainable within a single-discipline context. Candidates are required to submit and be examined on a research thesis supervised by one of the core faculty listed above. Selection of the research topic is made by the student together with her/his supervisor and graduate supervisory committee (typically three core faculty members including the supervisor.) A grade of at least B- (70) must be obtained in each of the graduate courses. The expected time for completion of the degree is two years.

Financial Support

The majority of students accepted are offered a teaching assistantship. These stipends are frequently increased by research stipends provided from research funds. This occurs most often in disciplines in the natural sciences. The program also provides funds to cover minor overhead research costs such as laboratory and computing supplies, equipment and some conference travel. Canadian candidates are encouraged to apply, before December, for national and provincial scholarships (NSERC and OGS awards).

Further Information

More detailed information about the program is contained on the program web page: www.trentu.ca/aminss. Inquiries should be addressed to the director of the program.

COURSES AVAILABLE TO GRADUATE STUDENTS: APPLICATIONS OF MODELLING (AMOD)

Not all courses are available every year. All courses listed are one-term courses.

AMOD 501H, AMOD 502H – Discipline-specific courses in the home department

These may be given by the research supervisor in a reading/project course format.

AMOD 551H – Statistical aspects of modelling

Various statistical approaches to modelling are illustrated, the emphasis being on the applications of statistics within the social and natural sciences rather than on the mathematical detail. The course discusses techniques of analysis of variance and co-variance, correlation, regression, and multivariate procedures (including multiple regression; multi-analysis of variance, exploratory factor analysis, confirmatory factor analysis, and path analysis). Prerequisite: As for AMOD 561H, plus a university course in advanced statistics and some knowledge of SAS, SPSS or an alternative statistical application package.

AMOD 552H – Special topics in statistics of modelling

Prerequisite: AMOD 551H or equivalent.

AMOD 561H – The foundations of modelling

Discussion of the modelling process, from the conceptual model through to a working model for comparison with experimental data. Sensitivity and uncertainty analysis, model validation. Introduction to statistical and mathematical models, and computer modelling and simulations. Models from a range of disciplines will be discussed. Prerequisite: One university course in each of calculus (differential and integral) and statistics, and some ability in a computational computer language.

AMOD 562H – Advanced topics in modelling

Prerequisite: AMOD 561H or equivalent.

AMOD 571H – Mathematical aspects of modelling

Various mathematical approaches to modelling are illustrated, the emphasis being on the methods rather than on the mathematical detail. The course discusses such topics as stochastic and deterministic modelling, dimensional analysis and nonlinear systems. Prerequisite: As for AMOD 561H, plus a university calculus course in differential equations.

AMOD 572H – Special topics in the mathematics of modelling

Prerequisite: AMOD 571H or equivalent.

AMOD 582H – Advanced topics in computational aspects of modelling

Prerequisite: AMOD 561H and AMOD 551H or AMOD 571H or equivalent.

AMOD 590 – Seminar on applications of modelling

Each student in the program makes one presentation per year on his/her research, with emphasis on the assumptions, methodology and analysis of the models used. These presentations are complemented by contributions from invited speakers and core faculty. This seminar course will be given a pass/fail grade every year, based on the presentations, attendance and participation by the student. A student's presentation will be attended and graded by her/his supervisory committee. Attendance is compulsory.

Students are normally required to take AMOD 501H, 502H, 561H and 551H or 571H. Students with advanced preparation in the material covered in any of 551H, 561H or 571H may appeal to take the corresponding advanced course instead: 552H, 562H or 572H, respectively.

M.A. Program in Canadian Studies & Native Studies

Telephone: (705) 748-1011 ext. 1750

E-mail: frostcentre@trentu.ca

Fax: (705) 748-1801

Web: www.trentu.ca/frostcentre

This interdisciplinary M.A. is offered by the Frost Centre for Canadian Studies and Native Studies, established in 1982 and named for Trent's first Chancellor and a former premier of Ontario, Leslie Frost. The Frost Centre is both a research centre and the home for two graduate programs, including the M.A. in Canadian Studies and Native Studies, and a jointly-sponsored Ph.D. in Canadian Studies with Carleton University (see p. 329). In both research and teaching, the Centre strives to create a vibrant, intellectual space for research, writing, debate and discussion on past and current themes and issues relating to Canadian Studies and Native Studies.

A collaborative effort that draws on a diverse range of faculty, the M.A. program focuses on the following thematic areas: the study of Aboriginal Peoples in Canada; interdisciplinary explorations of Canadian culture in literature, theory and the visual arts; power, policy and labour in Canadian society; environmentalism and bioregionalism in Canada; natural and cultural heritage: policy, planning, management and interpretation; region and place in Canada; including the comparative analysis of regionalism in federal societies; race, class, gender and ethnicity in Canadian society; community economic development; Canada in the global context.

Through course work and the writing of a thesis, the M.A. program offers students advanced exploration of themes and debates in Canadian Studies and Native Studies as well as a grounding in methodological and theoretical approaches to current scholarly research and writing. Critical and engaged writing, thinking and discussion are encouraged not only in through scholarly work, but also through the conferences, visiting speakers, student workshops and publications sponsored by the Frost Centre.

Graduate Program Director

J. Sangster, B.A. (Trent), M.A., Ph.D. (McMaster), F.R.S.C.

Faculty and Research Areas**Anthropology**

J. Harrison, B.A. (Saskatchewan), M.A. (Calgary), D.Phil. (Oxford), *tourism, museums and Aboriginal People, organizational culture*. **J. So**, M.A., Ph.D. (SUNY, Buffalo), *cross-cultural physical and mental health; migration, ethnicity and health, health care utilization among immigrant groups in Canada*.

Business Administration

B. Ahlstrand, B.A. (Toronto), M.A., M.Sc. (LSC), D.Phil. (Oxford), *community economic development, entrepreneurship, theory*. **J. Bishop**, (B.A. (New Brunswick), M.A., M.B.A. (McMaster), Ph.D. (Edinburgh), *business ethics and capitalism, moral philosophy of Francis Hutcheson, self identity*. **K. L. Campbell**, B.A. (Trent), M.B.A. (Toronto), *entrepreneurship, with particular emphasis on women in business and women in economic development*. **R. Dart**, B.A. (Trent), M.E.S., Ph.D. (York), *organizational theory, community economic development, field methods*. **J. A. Muldoon**, B.Sc. (Brock), M.A. (Guelph), Ph.D. (McMaster), *health economics, alternative health care, health policy*. **D. Newhouse**, B.Sc., M.B.A. (Western Ontario), *from the tribal to the modern – the development of modern Aboriginal societies in North America, governance and economies*. **M. Quaid**, B.A. (McGill), M.Sc. (L.S.E.), D.Phil. (Oxford), *work for welfare, international aid to developing countries, international and global volunteerism*.

Canadian Studies

D. Bhandar, M.A., Ph.D., (York), *contemporary political and cultural theory, citizenship, critical race and feminist studies, migration and transnational border politics*. **S. Chivers**, B.A. (Calgary), M.A., Ph.D. (McGill), *disability studies, aging, contemporary writing by women, the "Problem Body" on film*. **D. M. Clarke**, B.A. (Trent), M.A. (McMaster), Ph.D. (Carleton), *media industries, families and households, Canadian political economy*. **J. Driscoll**, M.A., Ph.D. (Queen's), *citizenship, governance and globalization*. **M. Lacombe**, M.A., Ph.D. (York), *women's writing, Postcolonial literature in Canada, diversity and Quebec/Francophone writing and culture*. **B. Palmer**, B.A. (Western Ontario), M.A., Ph.D. (SUNY, Binghamton), *working class history, social history, political economy, labour*. **J. E. Struthers**, M.A. (Carleton), Ph.D. (Toronto), *Canadian social policy, aging, ethnicity, multiculturalism*. **T. H. B. Symons** (Vanier Professor Emeritus). **J. H. Wadland**, B.A. (McMaster), M.A. (Waterloo), Ph.D. (York), *environmental history, cultural history, interdisciplinary methods*.

Cultural Studies

J. M. Bordo, B.A. (McGill, Alberta), M.A., M.Phil., Ph.D. (Yale), *cultural and aesthetic theory, errings of contemporary art, colonialist landscape art (Australia and Canada)*. **R. J. Dellamora**, A.B. (Dartmouth College), B.A. (Cambridge), M.Phil., Ph.D. (Yale), *gender issues, sexual orientation*. **V. V. Hollinger**, M.A. (Concordia), *science fiction and the post-modern condition*. **S. H. W. Kane**, B.A. (Carleton), M.A., Ph.D. (Toronto), *oral narrative*. **A. O'Connor**, B.A. (Trinity College, Dublin), M.A., Ph.D. (York), *culture and communication, theories of postmodernism, industrial folklore, press in Latin America*. **D. Torgerson**, B.A. (California-Berkeley), M.E.S. (York), M.A., Ph.D. (Toronto), *critical theory, political action, the public sphere, policy discourse, green political thought, environmental policy*. **A. L. Wernick**, B.A. (Cambridge), M.A., Ph.D. (Toronto), *Canadian social and cultural theory (esp. Innis), popular culture, religion*.

Economics

S. Choudhry, M.A. (McGill), Ph.D. (Manitoba). **D. C. A. Curtis**, M.A. (Queen's), Ph.D. (McGill). **J. A. Muldoon**, B.Sc. (Brock), M.A. (Guelph), Ph.D. (McMaster), *health economics, alternative health care, health policy*.

Education

D. P. Berrill, B.A. (Northwestern), M.A. (Toronto), Ph.D. (East Anglia), *sociocultural theory, gender and science, science culture, literacy, community, legitimate participation, feminist theory*.

English Literature

S. Chivers, B.A. (Calgary), M.A., Ph.D. (McGill), *narrative, disability studies, gender and age*. **L. W. Conolly**, B.A. (Wales), M.A. (McMaster), Ph.D. (Wales), *Canadian theatre history, Canadian dramatic literature*. **R. J. Dellamora**, A.B. (Dartmouth College), B.A. (Cambridge), M.Phil., Ph.D. (Yale), *gender issues, sexual orientation*. **M. C. Eddy**, M.A. (Western Ontario), Ph.D. (Toronto), *feminist and gender theories, theories of race and ethnicity, theories of the body and subjectivity, contemporary fiction*. **G. A. Johnston**, B.A. (Toronto), M.A. (Harvard), *Canadian Poetry, Ezra Pound, Lampman's poetry*. **S. H. W. Kane**, B.A. (Carleton), M.A., Ph.D. (Toronto), *oral narrative*. **M. A. Peterman**, B.A. (Princeton), M.A., Ph.D. (Toronto), *19th Century and 20th century Canadian literature and culture, Ontario literature, literature of the West, Irish Canadian writers, esp. Moodie, Traill, Davies, Findley, Urquhart*.

Environmental & Resource Science/Studies

S. Bocking, B.Sc., M.A., Ph.D. (Toronto), *environmental history, history of science, science in Canadian society*. **J. Clapp**, B.A. (Michigan), M.Sc., Ph.D. (London), *global environmental politics, environment and development, international political economy, global development*. **D. G. Holdsworth**, B.Sc. (Waterloo), M.Sc. (McMaster), Ph.D. (Western Ontario), *foundations of*

risk analysis, nuclear regulation, science policy, environmental philosophy, foundations of quantum theory, category theory and topos theory. **T. C. Hutchinson**, B.Sc. (Manchester), Ph.D. (Sheffield), *environmental and agricultural history of Canada, impacts of pioneers on environment biota and on forests, social history of mining and smelting towns.* **R. C. Paehlke**, B.A. (Lehigh), M.A. (New School for Social Research), Ph.D. (British Columbia), *Canadian and comparative environmental policy, history of North American environmental movement, Canadian public policy in global perspective;* **L. Rubinoff** (Emeritus), B.A. (Queen's), M.A., Ph.D. (Toronto). **L. Simpson**, B.Sc. (Guelph), M.Sc. (Mount Allison), Ph.D. (Manitoba), *Aboriginal perspectives on traditional ecological knowledge, Indigenous rights, resistance and colonization, Aboriginal perspectives on health and well-being.* **D. Torgerson**, B.A. (California-Berkeley), M.E.S. (York), M.A., Ph.D. (Toronto), *critical theory, political action, the public sphere, policy discourse, green political thought, environmental policy.* **T. H. Whillans**, B.A. (Guelph), M.Sc., Ph.D. (Toronto), *bioregionalism, community-based natural resource management, ecological restoration, historical ecology, wetlands, watersheds and lakes.*

Geography

A. G. Brunger, B.Sc. (Southampton), M.Sc. (Alberta), Ph.D. (Western Ontario), *settlement process, Upper Canada/Ontario, regional development, public works.* **J. S. Marsh** (Emeritus), B.A. (Reading), M.Sc. (Alberta), Ph.D. (Calgary), *conservation and tourism, history, planning and management in Canada and abroad.* **G. A. Nader**, B.A. (London), Ph.D. (Durham), *urban and regional development and planning, Canadian urban history, structure and growth of urban systems.* **S. E. Wurtele**, B.Sc. (Trent), Ph.D. (Queen's), *cultural heritage, ethnicity, gendered spaces.*

History

B.W. Hodgins (Emeritus), B.A. (Western Ontario), M.A. (Queen's), Ph.D. (Duke). **J. N. Jennings**, B.A. (Toronto), M.A. (Calgary), Ph.D. (Toronto). **E. H. Jones**, B.A. (Saskatchewan), M.A. (Western Ontario), Ph.D. (Queen's), *18th and 19th century Canadian political culture, comparative North American Protestantism in all periods, amusement and recreation history (1850 to 1920), Sir Sandford Fleming diary.* **J. S. Milloy**, B.A. (St Patrick's), M.A. (Carleton), Ph.D. (Oxford), *Aboriginal policy, Aboriginal education and health issues, plains Indian history.* **J. Sangster**, B.A. (Trent), M.A., Ph.D. (McMaster), *Canadian working-class and women's history, gender, labour and social policy, women and the criminal justice system.* **D. Sheinin**, B.Sc. (Toronto), M.A., Ph.D. (Connecticut), *history of inter-American relations, Pan Americanism, Canada and Latin America.* **S. D. Standen**, B.A. (British Columbia), M.A. (Oregon), Ph.D. (Toronto), *French-Aboriginal relations, New France, public history.* **J. E. Struthers**, M.A. (Carleton), Ph.D. (Toronto), *Canadian social policy, aging, ethnicity, multiculturalism.* **K. Walden**, M.A., Ph.D. (Queen's), *Late Victorian cultural and social history.*

International Development Studies

J. Clapp, B.A. (Michigan), M.Sc., Ph.D. (London), *global environmental politics, environment and development, international political economy, global development.* **C. V. Huxley**, B.A. (York, England), M.A. (Simon Fraser), Ph.D. (Toronto), *work, industrial relations and labour studies.* **D. R. Morrison**, M.A. (Saskatchewan), D.Phil. (Sussex), *international political economy, development studies, Canada's North-South relations.*

Native Studies

M.J. Castellano (Mohawk) (Emeritus), B.A. (Queen's), M.S.W. (Toronto). **L. Davis**, B.A. (Queen's), M.A. (Alberta), Ph.D. (Toronto), *community development, policy development, strategic planning.* **M. S. Dockstator**, B.Sc. (Waterloo), LL.B., D.Jur. (Osgoode), *Aboriginal self government, traditional knowledge, law, constitutional development.* **E. Manitowabi** (Anishinabe), MIDE.III (3-Fires). **D. N. McCaskill**, B.A. (Winnipeg), M.A. (Carleton), Ph.D. (York). **J. S. Milloy**, B.A. (St Patrick's), M.A. (Carleton), Ph.D. (Oxford), *Aboriginal policy, Aboriginal education and health issues, plains Indian history.* **D. Newhouse** (Onondaga), B.Sc., M.B.A. (Western Ontario), *From the tribal to the modern – the development of modern Aboriginal societies in North America, governance and economies*

Philosophy

M. L. Rubinoff (Emeritus), B.A. (Queen's), M.A., Ph.D. (Toronto)

Political Studies

J. Driscoll, M.A., Ph.D. (Queen's), *citizenship, governance and globalization*. **E. Helleiner**, B.A. (Toronto), M.A., Ph.D. (London), *international political economy, globalization, nationalism, monetary and financial politics*. **D. R. Morrison**, M.A. (Saskatchewan), D.Phil. (Sussex), *international political economy, development studies, Canada's North-South relations*. **M. Neufeld**, B.A. (Waterloo), M.A., Ph.D. (Carleton), *Canadian foreign policy, Canadian political economy, Canadian political culture*. **R.C. Paehlke**, B.A. (Lehigh), M.A. (New School for Social Research), Ph.D. (British Columbia), *Canadian and comparative environmental policy, history of North American environmental movement, Canadian public policy in global perspective*. **A. Pickel**, M.A. (Guelph), Dipl. Pol. (Berlin), Ph.D. (York), *nationalism and political order in global perspective*. **D. Torgerson**, B.A. (California-Berkeley), M.E.S. (York), M.A., Ph.D. (Toronto), *critical theory, political action, the public sphere, policy discourse, green political thought, environmental policy*. **J. Wearing** (Emeritus), B.A. (Western Ontario), M.A. (Toronto, Oxford), D.Phil. (Oxford), *Canadian political parties, political television advertising, party discipline, parliamentary dissent in Canada and the U.K.*

Psychology

D. J. Kennett, B.A., Ph.D. (McMaster), *variables promoting healthy adjustment to everyday life demands/stresses, the complex and multidimensional aspects of goal accomplishments*.

Sociology

S. Arat-Koc, B.A. (Bogazici), M.A. (Waterloo), Ph.D. (Toronto), *citizenship, immigration policy, immigrant women in Canada, race and ethnicity*. **R. T. Bowles** (Emeritus), B.Sc. (Brigham Young), Ph.D. (Oregon). **D. M. Clarke**, B.A. (Trent), M.A. (McMaster), Ph.D. (Carleton), *media industries, families and households, Canadian political economy*. **J. R. Conley**, B.A. (Alberta), M.A. (Toronto), Ph.D. (Carleton), *social inequality, class formation, social movements, labour history*. **A. Heitlinger**, B.A. (Kent), Ph.D. (Leicester), *status of women, health professions, transnational feminist movement, migration, travel*. **C. V. Huxley**, B.A. (York, England), M.A. (Simon Fraser), Ph.D. (Toronto), *work, industrial relations and labour studies*. **S. Katz**, B.A. (York), M.A. (McGill), Ph.D. (York), *aging and lifecourse studies, sociology of the body, culture, knowledge*. **A. Law**, B.Bus., Graduate Diploma (New South Wales Institute of Technology), M.A., Ph.D. (Alberta), *sociology of leisure, sociology of work and income support*. **B. L. Marshall**, M.A. (Guelph), Ph.D. (Alberta), *women in Canada, feminist politics, feminist media*. **D. Parnis**, B.A. (Ryerson), M.A. (Toronto), Ph.D. (Carleton), *media, women's issues, state theory, cultural theory*.

Women's Studies

S. Arat-Koc, B.A. (Bogazici), M.A. (Waterloo), Ph.D. (Toronto), *citizenship, immigration policy, immigrant women in Canada, race and ethnicity*. **M. Hobbs**, B.A. (Trent), M.A. (Toronto), Ph.D. (OISE), *Canadian women's history (esp. work and welfare), women and environment/feminism and environmentalism*. **B. L. Marshall**, M.A. (Guelph), Ph.D. (Alberta), *women in Canada, feminist politics, feminist media*. **C. O'Manique**, B.A. (Carleton), M.A., Ph.D. (York), *comparative political economy of developing countries, comparative public policy in developing countries, gender and globalization*. **J. Sangster**, B.A. (Trent), M.A., Ph.D. (McMaster), *Canadian working-class and women's history, gender, labour and social policy, women and the criminal justice system*.

Adjunct Professors

R. Bringham, B.A. (Indiana), M.F.A. (British Columbia), *private scholar*. **R. Campbell**, B.A. (Trent), M.A. (Toronto), Ph.D. (London), *Dean of Arts, Wilfrid Laurier*. **M. Ferguson**, B.Sc. (Carleton), M.Sc. (Wisconsin), Ph.D. (Saskatchewan), *Wildlife biologist*. **P. Kulchyski**, B.A. (Winnipeg), M.A., Ph.D. (York), *Chair, Native Studies, Manitoba*. **J. Moss**, B.A. (Western Ontario), M. Phil. (Waterloo), Ph.D. (New Brunswick), *Professor of English, Ottawa*. **R. Page**, B.A., M.A. (Queen's), Ph.D. (Oxford), *TransAlta Corp.*. **C. Verduyn**, B.A. (Trent), M.A., Ph.D. (Ottawa), *Professor of English, Wilfrid Laurier*.

Regulations

The general regulations and requirements of Trent University for the M.A. degree apply to the Canadian Studies & Native Studies program. Students are admitted to the program once a year for studies beginning the following September. Applicants are expected to have a minimum of an upper second-class Honours degree (B+ average) in an area relevant to their proposed course of study at Trent, and are expected to have taken undergraduate courses relating to Canada, or be willing to take such courses as their make-up, usually before admission. As well, students must have a clear interest in an interdisciplinary graduate experience. The main emphasis will be on the research and writing of an interdisciplinary thesis on an approved topic. Two graduate courses

comprising *CSNS 500* and two half courses or one full course from the approved list below are required. Theses will be supervised by a committee consisting of a primary supervisor, who must be a tenured or tenure-track faculty member of the Frost Centre, two other supervisory committee members of the Frost Centre and another secondary supervisor who may be from outside the university, if appropriately qualified. The committee must represent at least two of the disciplines or programs involved in Canadian Studies and Native Studies. Candidates must attain at least a second class standing in their work, and shall pass an oral examination in defence of their thesis. Additional requirements appropriate to the candidate's field may be specified by the supervisory committee. The expected time of completion of the degree is two years.

FINANCIAL SUPPORT

Graduate Assistantships

Trent has a variety of means of supporting M.A. students, including the provision of teaching assistantships, research assistantships, scholarships and bursaries. Students who are awarded teaching assistantships will normally be eligible to hold them for four terms, spanning two consecutive undergraduate academic years. For this payment it is expected that students will give 10 hours per week of teaching service to the University.

External Funding

Applicants are encouraged to seek external scholarships where available.

Further Information

For more information consult the web page of the Frost Centre (www.trentu.ca/frostcentre), e-mail the program at frostcentre@trentu.ca or consult the Director.

COURSES AVAILABLE TO GRADUATE STUDENTS: Canadian Studies & Native Studies (CSNS)

Note: The program is not always able to offer all its courses in each academic year. In the event that a listed course is unavailable, a Special Topic course under the guidance of an individual faculty member may be substituted.

CSNS 500 – Interdisciplinary colloquium

This course considers the nature of research practice in fields of study contained by the Frost Centre for Canadian Studies & Native Studies; it explores the relationship between the theories and methodologies which govern contemporary discourse in interdisciplinary inquiry; it guides and expedites the initiation of a thesis; it addresses ethical conduct in research; it brings together students, faculty and visiting scholars to discuss shared intellectual problems and concerns. This course is mandatory for all M.A. students.

CSNS 5101H – The Study of the Aboriginal Peoples in Canada: Governance

CSNS 5102H – The Study of the Aboriginal Peoples in Canada: History and politics

CSNS 5103H – The Study of the Aboriginal Peoples in Canada: Society and culture

CSNS 520H – Canadian culture through literature, the visual arts and monuments

CSNS 530H – Power, policy and labour in Canadian society

CSNS 540H – Environmentalism and bioregionalism in Canada

CSNS 570H – Women in Canadian society

CSNS 599 – Reading Course (A written justification, course outline and approval of the Graduate Program Director are required to take the course.)

Ph.D. Program in Canadian Studies

Telephone: (705) 748-1011 ext. 1750

Fax: (705) 748-1801

E-mail: frostcentre@trentu.ca

Web: www.trentu.ca/frostcentre

The doctoral program is offered jointly by the School of Canadian Studies at Carleton University and the Frost Centre for Canadian Studies & Native Studies at Trent University.

The Ph.D. program offers five fields of study: Culture, Literature and the Arts; Environment and Heritage; Policy, Economy and Society; Identities; and Women's Studies. The program of courses and thesis guidance, drawing upon the faculty of the two academic units and universities, will encompass course requirements, comprehensive examinations and a thesis.

The Ph.D. program in Canadian Studies normally will be undertaken on a full-time basis. However, in cases of exceptional merit, the Frost Centre will accept a few candidates for the degree on a part-time basis.

Graduate Program Director

J. Sangster, B.A. (Trent), M.A. Ph.D. (McMaster), F.R.S.C.

Faculty and Research Areas

See the calendar entry on the M.A. Program in Canadian Studies & Native Studies (p. 325)

Admission Requirements

The normal requirement for admission into the Ph.D. program is a Master's degree (or equivalent), with at least high Honours standing, in Canadian Studies or a cognate discipline.

Applicants should note, however, that meeting the admission requirement does not guarantee admission to the program.

Program Requirements

Doctoral candidates must successfully complete the equivalent of 10 credits. Candidates who have deficiencies in certain areas may be admitted to the Ph.D. program, but will normally be required to complete additional work. The specific requirements are as follows:

- 1.0 credit for successful completion of the mandatory core seminar, *Canadian Studies 600*.
- 1.0 credit for successful completion of two half-credit courses or tutorials (or the equivalent) at the graduate level from the list below, with one half-credit course drawn from each of the candidate's two major fields of study; a GPA of 9.0 or better must be obtained in these courses for students to be allowed to proceed to the comprehensive examinations.
- 1.0 credit for successful completion of two half-credit written comprehensive examinations. Students will be examined in two fields. Normally, students will be expected to complete their comprehensives within 24 months of entering the program.
- A public defence, in English, of a written thesis proposal. Following the completion of their comprehensives, students will be expected to defend a proposal of the research and analysis they plan to undertake in completing their Ph.D. dissertation. The dissertation proposal defence should normally occur within six months of a student's comprehensive examinations. The dissertation committee will be composed of three faculty, always including one from each university.
- A 7.0-credit thesis, which must be successfully defended in English at an oral examination.
- The expected time of completion of the degree is two years.

Language Requirement

Satisfactory demonstration of an understanding of a language other than English. Although French is the preferred second language, students may be permitted to substitute an Aboriginal language indigenous to Canada or another language if it is demonstrably relevant to their research interests.

Students who have taken a language examination as a requirement for their M.A. cannot use it to meet the Ph.D. language requirement. In order to establish equal treatment of all students, all doctoral candidates will be required to pass the Ph.D. language examination.

CANADIAN STUDIES COURSES AT TRENT UNIVERSITY BY PROGRAM FIELD

Not all of the following courses are offered in a given year. For an up-to-date statement of offerings, please refer to the Registration Instructions and Class Schedule booklet published in the Summer.

CAST 600 – Ph.D. core seminar: Interdisciplinarity in Canadian Studies: Concepts, theories and methods

This course will examine the complex theoretical and methodological issues associated with the discourse on an interdisciplinary study of Canada. It will be offered at Carleton and Trent through a combination of joint sessions at both universities and regular electronic communication. This course is mandatory for all Ph.D. students.

CAST 601H – Culture, literature and the arts

This course will address a wide range of materials and issues, from theories of culture in general to Canadian theoretical discourses on cultural practices, and on the interplay among theory, art and literature, and their social contexts. Areas of investigation include: the nature and parameters of national (local, regional, global) cultures, literatures and other arts; the relation to Canadian culture/s of Quebec, post-colonial and other intersecting dimensions; the impact of technology; the shape of institutional structures; the dynamics of production and reception; linguistic and cultural policy and the state; and questions of diversity and multiculturalism.

CAST 602H – Environment and heritage

The focus of this course will be on locality, landscape, environment and region in Canada. Areas of investigation include the social and historical construction of physical environments and cultural landscapes; sense of place and geographic identity; preservation of the natural environment; parks and wilderness conservation; preservation of the built environment; cultural and natural resource management; traditional ecological knowledge (TEK) and bioregionalism; and environmental policy and planning.

CAST 603H – Policy, economy and society

This course will look at the complex web of relationships linking economy, civil society and public policy in Canada and their interaction within social, political and cultural life. Themes to be examined include political economy, government, moral regulation, community economic development, the historical and spatial processes which locate social change through business, government, and labour and the social movements, ideologies and interests which are embedded within political and regulatory structures and processes

CAST 604H – Identities

This course will examine the character and experience of individual, collective and communal identities in Canada. Areas for investigation include nations and nationalism; regions and regionalism; ethnicity and multiculturalism; race and racism; language, language communities and policies; faith and faith communities; identities based on personal status including disability and ablist, sexual orientation and homophobia; issues of inclusion and exclusion, including citizenship and other membership criteria. Issues raised by gender and post-colonialism will be integrated into the subfields.

CAST 605H – Women's studies

This course will explore women's experiences of the major dynamics of social, political, economic and cultural development at all levels of Canadian life. Emphasis will be placed on the diversity and differences as much as on the commonalities of women's experiences. Theme areas will include feminist theory, women's movements, women's productive and reproductive work, patterns of women's autonomy and dependence, women's culture, cultural practices and identity.

CAST 606H – Ph.D. tutorial

Reading and research tutorials. A program of research and written work in an area not covered by an existing graduate seminar.

CAST 607 – Ph.D. comprehensive examination

Available only to Ph.D. students. Students will receive a grade of *Satisfactory*, *Unsatisfactory* or *Pass with Distinction*.

CAST 608 – Ph.D. comprehensive examination

Available only to Ph.D. Students. Students will receive a grade of *Satisfactory*, *Unsatisfactory* or *Pass with Distinction*

CAST 609 – Ph.D. thesis

To meet program requirements Trent students must take at least one of the half-credit courses from the Canadian Studies courses listed above. Students can also choose from approved graduate courses at the School of Canadian Studies at Carleton University. Students should consult with the Graduate Studies Administrator for the complete listing of acceptable graduate courses available at Carleton University in any given year.

All graduate courses must be approved by the Director of the Frost Centre at Trent University.

Academic Standing

All Ph.D. candidates must obtain at least B+ standing or better (GPA 9.0) in each credit counted towards the degree.

Comprehensive examinations (which will be graded on a *Satisfactory*, *Unsatisfactory* or *Pass with Distinction* basis) are exempted from this required standing.

Comprehensive Examinations

All Ph.D. candidates must successfully complete a written and oral comprehensive examination in each of their two major fields. The fields of study for the Ph.D. comprehensive examinations are to be chosen from the following list:

- **Culture, Literature and the Arts**

A general knowledge of theories of culture in general, Canadian theoretical discourses on cultural practices, and on the interplay among theory, art, and literature, and their social contexts.

- **Environment and Heritage**

A general knowledge of locality, landscape, environment and region in Canada.

- **Policy, Economy and Society**

A general knowledge of the complex web of relationships linking economy, civil society and public policy in Canada and their interaction within social, political and cultural life.

- **Identities**

A general knowledge of the character and experience of individual, collective and communal identities in Canada.

- **Women's Studies**

A general knowledge of women's experiences of the major dynamics of social, political, economic and cultural development at all levels of Canadian life.

Thesis Proposal

All students must publicly defend a thesis proposal after completing their comprehensive examinations. Full-time students must complete this requirement within the first two years of registration in the program.

Financial Support

- The majority of students accepted into the Ph.D. program will be offered teaching or research assistantships, normally for a maximum of eight terms spanning four consecutive undergraduate academic years. In return for the stipend involved, the students are required to work for up to 10 hours per week, generally assisting with some aspects of the undergraduate teaching program. The stipend is fully taxable and deductions are made through the Human Resources department.
- Successful applicants to the Canadian Studies Ph.D. program will automatically be considered for a number of Ph.D. scholarships and bursaries. Scholarships will be awarded to students with high academic standing.
- Students are encouraged to apply for scholarships, particularly the Ontario Graduate Scholarship (OGS): Student Support Branch, Ontario Ministry of Education and Training, P.O. Box 4500, 189 Red River Road, 4th Floor, Thunder Bay, Ontario P7B 6G9, and the Social Science and Humanities Research Council Doctoral Fellowships (SSHRC).

M.A. Program in Methodologies for the Study of Western History & Culture

See M.A. Program in Theory, Culture & Politics

Ph.D. Program in Native Studies

Telephone: (705) 748-1011 ext. 1443

E-mail: nativestudies@trentu.ca

Fax: (705) 748-1416

Web: www.trentu.ca/nativestudies/phd

The Ph.D program in Native Studies is the first program of its kind in Canada and only the second in North America. It is interdisciplinary in nature and based on the integration of Indigenous and Western academic knowledge.

The program seeks to ensure that physical, mental, emotional and spiritual dimensions of Aboriginal knowledge, as reflected in traditional and contemporary world views and expressed in practice, are articulated, discussed, documented, recognized and experienced.

In order to achieve this vision, the Native Studies Ph.D. program offers an educational opportunity at an advanced level of study within a respectful environment. Students will be engaged in learning experiences that are centred in Aboriginal cultures in content and process and reflect the interaction between traditional and contemporary Aboriginal knowledge within the academic context. It is an interdisciplinary program developed and sustained in partnership with the Aboriginal community which seeks to advance learning through creative interaction of teaching, research and experience of the highest quality.

The program is a culturally based interdisciplinary program which assumes an emic, or insider's, viewpoint rooted in Aboriginal spirituality, principles and cultural values. It recognizes that Indigenous knowledge is as valid as the academic knowledge of Western-trained academics. It

seeks to blend this knowledge as expressed by Aboriginal Elders and Traditional People, with Western academic perspectives. To this end the program brings together Aboriginal and non-Aboriginal students to study at an advanced level the historical, cultural and contemporary situation of the Aboriginal/Indigenous People. Aboriginal Elders and traditionally knowledgeable people are central to the program.

The program aims:

- to advance Native Studies as an interdisciplinary field of study through the rebuilding and recognition of Indigenous knowledge and the creation of knowledge which reflects Aboriginal/Indigenous experience.
- to make available to students, at an advanced level, education in Native Studies that will enable graduates to employ a range of skills in the context of Aboriginal communities, as well as in Aboriginal and non-Aboriginal organizations.
- to explore research methodologies appropriate to the creation of knowledge reflective of Aboriginal/Indigenous experiences.
- to prepare students for careers in teaching, research, administration, business and government.

Graduate Program Director

To be announced

Director of Studies

D. Williams, (Anishnaabe), B.A. (Trent)

Native Studies Ph.D. Program Graduate Council

The Ph.D. program is overseen by the Native Studies Ph.D. program Graduate Council which is composed of members of the Aboriginal community, faculty, students and staff from Trent, and faculty from other universities.

Faculty and Research Areas

Native Studies

M. Brant-Castellano (Mohawk, Wolf Clan), B.A. (Queen's), M.S.W. (Toronto), *Aboriginal organizations, RCAP, Aboriginal traditions of knowledge, Aboriginal education, research ethics.*

L. Davis, B.A. (Queens), M.A. (Sussex), M.A. (Alberta), Ph.D. (Toronto); *Aboriginal community development, alliance-building globalization, Aboriginal education.* **M. S. Dockstator** (Oneida), B.Sc. (Waterloo), L.L.B., D. Jur (York), *Aboriginal self-government, Traditional Knowledge, law, constitutional development.* **E. Manitowabi** (Anishnaabe Kwe) Mide. III, *Nishnaabemowin (Ojibway) language and culture, Aboriginal women's studies, film and theatre, Traditional Knowledge.* **D. N. McCaskill**, B.A. (Winnipeg), M.A. (Carleton), Ph.D. (York), *Aboriginal education, urbanization, justice and corrections, community development, self-government, international development.* **J. S. Milloy**, B.A. (St Patrick's), M.A. (Carleton), D. Phil. (Oxford), *Aboriginal policy, Aboriginal education and health issues, Plains Indian history.* **D. Newhouse** (Onondaga), B.Sc., M.B.A. (Western Ontario), *development of modern Aboriginal societies, governance, economics.* **L. Simpson**, B.Sc. (Guelph), M.Sc. (Mount Allison), Ph.D. (Manitoba), *Indigenous environmental studies, Indigenous governance, environmental resource science.*

S. I. Williams (Anishnaabe Kwe), B.A. (Trent), NLIP Dip (Lakehead), M.A. (York), *Nishnaabemowin (Ojibway) language and culture, Aboriginal residential schools, Aboriginal women's studies, Traditional Knowledge, Aboriginal identity development.*

Anthropology

J. Harrison, B.A. (Saskatchewan), M.A. (Calgary), D.Phil. (Oxford), *public policy about Native people of Canada, museums as agents of postcolonialism, museums and tourist expectations.*

S. M. Jamieson, B.A. (McMaster), M.A. (Manitoba), Ph.D. (Washington State), *Ontario Iroquois evolution, ethnohistoric approaches, Western sub-arctic prehistory, method and theory in archaeology, Plains prehistory, Northeastern middle woodland, problems in historic archaeology, Canadian archaeology.* **J. M. Vastokas**, M.A. (Toronto), Ph.D. (Columbia), *Native art as performance, landscape, experience and symbol, political resistance through tradition and non-conformity, Native art of North America, artifacts as text, the visionary experience, ancient Australia and symbiotic interaction, totem poles, folklore and folk art.*

Canadian Studies

- S. D. Grant**, M.A. (Trent), *Northern identity, Inuit resettlement, the Northwest passage.*
J. E. Struthers, M.A. (Carleton), Ph.D. (Toronto), *social welfare, freedom of information, unemployment, long-term care, pension and old age security in Ontario.* **J. H. Wadland**, M.A. (Waterloo), Ph.D. (York), *Place/ space/ landscape, Aboriginal rights and treaties, environmental and social justice, social ecology, social constructions of nature, visual culture*

Cultural Studies

- J. Bordo**, B.A. (McGill, Alberta), M.A., M.Phil., Ph.D. (Yale), *landscape, contemporary art, picturing, modern technology, and Aboriginal land claims.*

Economics

- S. Choudhry**, M.A. (Chittagong, Bangladesh), M.A. (McGill), Ph.D. (Manitoba), *RCAP, DIAND, First Nations Consultants, economics and economic development.*

Environmental & Resource Studies

- R. C. Paehlke**, B.A. (Lehigh), M.A. (New School for Social Research), Ph.D. (British Columbia), *conservation, environmentalism and politics, and economics, and urbanization, and labour, and policy, global environmental problems and sustainable development.*

History

- B. W. Hodgins** (Emeritus), B.A. (Western Ontario), M.A. (Queen's), Ph.D. (Duke), *Northern studies, Temagami land claims, environmental issues, transportation, natural resources.*
S. D. Standen, B.A. (British Columbia), M.A. (Oregon), Ph.D. (Toronto), *Aboriginal history in Ontario, socio-economic impact of colonialization in French colonies, consequences of conquest.*

Political Studies

- D. R. Morrison**, M.A. (Saskatchewan), D.Phil. (Sussex), *bilateral aid, evaluating development assistance, CIDA and Canadian development assistance.*

Adjunct Faculty

- K. M. Abel**, *History, Pre-confederation colonies, Dene history, oral traditions in the north;*
F. D. Abele, *Public Administration, public policy, the political economy of Indigenous Peoples and peace issues;* **S. Brascoupe** (Algonkian/Mohawk), M.A. (New York State), *History, Native economic development, education, business.* **H. Feit**, *Anthropology, renewable resources, land claims, environment and hunter-gatherer issues.* **P. Kulchyski**, B.A. (Winnipeg), M.A., Ph.D. (York), *Aboriginal self government, land claims, politics in the North, contemporary political thought.* **D. Longboat** (Roronhiokewen), *Native Studies, (Trent), environmental issues, Haudenosaunee traditional teachings.* **B. Loucks** (Anishnaabe), *Public Administration, cultural research, curriculum development, language policy.* **D. McNab**, B.A. (Waterloo), M.A. (McMaster), Ph.D. (Lancaster). **K. Richard**, *inter-cultural practices, child and family services.*
F. Wein, *social work, Mikmaq cultural, educational and social issues.* **P. Williams** (Haudenosaunee) *Legal advisor, repatriation of cultural materials and ancestral remains, research, negotiation.*

Honorary External Associates

- E. Benedict** (Mohawk, Akwesasne), *politics, education, socio-cultural development.*
V. Douglas (Anishnaabe), *education.* **S. Maracle** (Mohawk, Tyendinaga), *Aboriginal women, urban Aboriginal Peoples, Aboriginal families.* **M. Thrasher** (Cree), *Anishnaabe philosophy, tradition and culture.*

Regulations

The general regulations and requirements of Trent University for graduate degrees apply to the Ph.D. program in Native Studies. Students are admitted to the program once a year in September. To be eligible for admission, the applicant must possess a Master's degree or equivalent, with at least an upper second-class standing (B+, 77%). In their application, students will be invited to indicate their area(s) of research interest. Ideally, applicants will possess a Master's degree in the field of Native Studies. However, given the limited number of Master's programs available in Native Studies, highly-qualified students from other disciplinary-based graduate programs will be considered for admission. In some cases, students without a background in Native Studies will be required to enroll in a qualifying year program in Native Studies to ensure an adequate academic background in Native Studies.

The Ph.D. program is a full-time program and does not currently have a part-time option. Students will be invited to indicate their area(s) of research interest in their application. The Ph.D. program has a two-year residency requirement during which students will enroll in 3.5 courses in

the first year and three courses in the second year. All students will take *NAST 600*, *601*, *603H*, *620H*, *700*, *701* and *720H*. In second term of the first year, students will take *NAST 605H* or *NAST 610H*. In second year, students will take either *NAST 705H*, *710H* or *715H*. Upon successful completion of the courses, students will write two comprehensive examinations: a Core Native Studies Examination and an examination in their field of specialization, History and Politics or Social and Cultural Issues or, in lieu of the specialized comprehensive exam, carry out a Pimadiziwin/Atonhetseriio option, (see *NAST 715H*). This will be followed by the research, writing and defence of their Ph.D. dissertation. (see *NAST 800*). The maximum time for completion of the Ph.D. degree is five years. Dissertations will be supervised by a Dissertation Supervisor selected from the Core Faculty and a Supervisory Committee. Students must maintain a B+ average in all courses. Students will be required to demonstrate proficiency in a language other than English, preferably an Aboriginal language. Proficiency in an Aboriginal language may be demonstrated by either: passing an examination in an Aboriginal language administered by the Native Studies department, or by presenting a transcript with a grade of B or better in an Aboriginal language course taken at an accredited university. Proficiency in a foreign language may be demonstrated by means of presenting a transcript showing a grade of B or better in a course in a foreign or an Aboriginal language taken at an accredited university.

Financial Support

Successful applicants to the Native Studies Ph.D. program will automatically be considered for a limited number of Native Studies Ph.D. scholarships when available and the Quaker Oats Native Studies Ph.D. Graduate Scholarship. Scholarships will be awarded to students with high academic standing. The majority of students accepted will be offered teaching or research assistantships, normally for a maximum of six terms spanning three consecutive undergraduate academic years. In return for the stipend involved, the students are required to work for up to 10 hours per week, generally assisting with some aspect of the undergraduate teaching program. The stipend is fully taxable and deductions are made through the Human Resources department. Students are encouraged to apply for scholarships, particularly the Ontario Graduate Scholarship (OGS): Student Support Branch, Ontario Ministry of Education and Training, P. O. Box 4500, 189 Red River Road, 4th Floor, Thunder Bay, Ontario P7B6G9 and the Social Science and Humanities Research Council Doctoral Fellowships (SSHRC).

Further Information

For more information please check our website at www.trentu.ca/nativestudies/phd or telephone the Native Studies Ph.D. program at (705) 748-1011 ext. 1443.

FIRST YEAR COURSES

Not all courses are offered every year.

NAST 600 – Indigenous knowledge

The course will examine theories of Native Studies from interdisciplinary and experiential perspectives focussing on the nature of Aboriginal thought as expressed through oral tradition, written texts and other sources. Aboriginal Elders and Traditional people will participate extensively in the course. Topics include traditional and contemporary Aboriginal culture, Aboriginal history, theoretical perspectives pertaining to Aboriginal peoples, the nature of Aboriginal communities, and contemporary social, political and economic issues. Required of all students.

NAST 601 – Native Studies theory and methods

The course will present students with a range of theoretical and methodological issues related to conducting research in Aboriginal communities. A number of Indigenous and Western approaches to the construction of knowledge will be examined, with a view to developing a distinctive Indigenous theories, approaches and methods. It will focus on community-based research methods and particularly decolonizing approaches. Topics include research design, ethics, community-based data collection and analysis. Required of all students.

NAST 603H – Governance

This course examines Aboriginal governance in a broad context and explores issues central to emerging Aboriginal governments. It also examines emerging Aboriginal political theory and practice. This course is required of all students.

NAST 605H – Native Studies history and politics

This second term course will examine the history of inter-cultural relations between Aboriginal Peoples and the larger society. It will focus on topics such as early contact, the fur trade, the development of colonial policy, treaties, the reserve system, Aboriginal de-colonialization movements, modern political dialogue for constitutional renewal and issues of land claims and self-government. Required of students in the history and politics specialization

NAST 610 – Social and cultural issues in Native Studies

This second term course will examine a wide range of social and contemporary issues as they affect Aboriginal Peoples in Canada including: contemporary revitalization of traditional Aboriginal culture, models of Aboriginal community development, development of Aboriginal institutions in the areas of education, health and social services, economic development, law, urbanization and cross-cultural relations. Required of students in the social and cultural specialization.

NAST 620H – Independent study and research

Options for independent study include: developing an annotated bibliography in a particular area of study; carrying out an extensive review of the literature in particular topics; conducting a research project in an Aboriginal community or organization; or conducting an independent study. Students will work under the supervision of a faculty member and/or designated members of the Aboriginal community. The course is a self-developed, broad-based review of issues from fields which may be collateral to the student's dissertation, and may not necessarily be covered by existing courses. The student will work with their supervisor(s) to develop a detailed course syllabus or research proposal. This experience, in a practical structuring of curriculum or research proposal, aids in developing skills for future use. Required of all students.

SECOND YEAR COURSES**NAST 700 – Practicum field placement**

Students are required to work full-time or carry out research with a First Nation community or Aboriginal organization, with a focus on community or organizational needs. The community-based project will be approximately three months in duration and will normally be carried out in the Summer following the first year or in the first term of the second year of study. A key objective is to immerse the student in the culture and the community. Students will be supervised by a faculty member and a designated member of an Aboriginal community or organization.

NAST 701 – Dissertation research course

This course is designed to allow students to work with an instructor and their dissertation supervisor and committee through fortnightly classes and consultations to develop an appropriate plan to carry out research for their dissertation. Students will be required to write a dissertation proposal and have it examined and approved by the Dissertation Proposal Examination Committee.

Dissertation Proposal Examination

A Dissertation Proposal Defence Examining Committee includes three members, at least two of which are not members of the student's supervisory committee and one member of the committee will be external to the Native Studies program. The student and the dissertation supervisor will present the proposal to the Dissertation Proposal Examining Committee. The Committee will determine whether the student has an effective grasp of her/his area of study, a viable research proposal and potential for completion of the degree.

NAST 705H – Reading course in Native Studies: History and politics for comprehensive examination**NAST 710H – Reading course in social and cultural issues for comprehensive examination****NAST 715H – Pimadiziwin/Atonhetseri:io**

This experiential option requires students to participate in a significant Aboriginal cultural experience such as apprenticing with an Elder for a substantial period of time. The course will entail students being supervised and examined by a Council of Elders. Students will be required to audit an undergraduate course in the Native Studies department concurrently with the Pimadiziwin/Atonhetseri:io Option (i.e. *NAST 211 – Aboriginal identity development*; *NAST 220 – Iroquois culture*; or *NAST 310 – Culture and community*).

NAST 720H – Reading course

This course is intended to assist students in preparing for the Core Comprehensive Examination. The Core Comprehensive Examination is designed to test students' understanding of central themes and issues in Native Studies at an advanced level, particularly as they relate to Indigenous knowledge and Western theoretical perspectives. Students will refer to the Native Studies Ph.D. Bibliography for selected readings pertaining to the Core Comprehensive Examination. Students will work independently to prepare for the examination. In addition, monthly sessions will be held with faculty, Elders and Aboriginal community people on topics pertaining to the subject matter of the examination. Students will have the option of writing the Core Comprehensive Examination twice a year: March and September.

THIRD YEAR COURSE**NAST 800 – Dissertation**

Students are required to conduct original research and complete a Ph.D. dissertation; a research project judged to be a mature and original contribution to knowledge. A Ph.D. student must successfully defend her/his dissertation in an oral examination before a Dissertation Examining committee consisting of five persons: a chairperson, either a co-director or their designate, a recognized expert in the field external to Trent, an internal examiner not associated with the supervision of the dissertation, at least one member of the supervisory committee and the principal supervisor. The maximum time for completion of the Ph.D. degree is five years.

Thesis Supervision

Theses will be supervised by a Dissertation Supervisor selected from the Core Faculty and a Supervisory Committee.

M.A. Program in Theory, Culture & Politics

Telephone: (705) 748-1011 ext. 1809 E-mail: theory@trentu.ca

Fax: (705) 748-1829

Web: www.trentu.ca/theorycentre

Interdisciplinary in spirit and theoretical in emphasis, this M.A. program focuses on contemporary issues in the humanities and social sciences concerning the interpretation of culture and politics. The program responds to a situation in which the human sciences, without having resolved traditional problems concerning strategies for, and the status of, their various kinds of inquiry, have been overtaken by new problems in which once founding categories and assumptions have been radically challenged from a variety of philosophical and political directions so that a new intellectual agenda is beginning to emerge.

The aim of the program is to enable students to engage these issues in the context of intensive collegial discussion and substantive projects of research. In addition to background courses, student work centres on a core seminar (T500) which involves all students and faculty in the program, and on a Master's thesis. The degree program is intended both as a preparation for doctoral studies, and as a qualification in itself for those pursuing a non-academic career (e.g.) in teaching, media, law and government service.

Areas of emphasis within the program are: textuality, semiotics and discourse; nature, culture and technology; gender, body and psyche; science as knowledge and discourse; social and political theory.

The program is connected to the Centre for the Study of Theory, Culture & Politics, which encourages faculty and student research, publications, visiting speakers and conferences. Each year the Centre and the program adopt a loosely overarching theme for the main speakers series and seminar. Past themes have included the practice of theory, media and discourse, time and history, science and culture, and rethinking the political. The current theme is "Culture and the Political." For further information about the Centre, the program and current activities, please visit our website at www.trentu.ca/theorycentre.

Graduate Program Director

D. Torgerson, B.A. (California-Berkeley), M.E.S. (York), M.A., Ph.D. (Toronto)

Canada Research Chair

D. Panagia, B.A. (Winnipeg), M.Litt. (Oxford), M.A., Ph.D. (Johns Hopkins)

Faculty and Research Areas

Computer Science/Studies

S. Regoczei, M.Sc., Ph.D (Toronto), *textual analysis, conceptual modelling, Foucault and discourse theory, methodologies for the development of knowledge-based software*

Cultural Studies

Z. Baross, B.A. (U.B.C.), M.A. (London), Ph.D. (Amsterdam), *ethics of testimony and witnessing, question of community/hostility/hospitality, relation between political and the philosophical, lure of the Image*. **J. Bordo** M.A., M.Phil. Ph.D. (Yale), *condition of modernity, with reference to visual art, architecture, landscape and monumental sites, cultural transmission, the (post)modern sublime*.

R. Dellamora, M.A. (Cambridge), Ph.D. (Yale), *Victorian studies, aestheticism and the decadence, literature/visual arts/opera in relation to gender and sexuality, cultural construction of masculinities, critical theory (Foucault, Barthes and Derrida)*. **J. Fekete**, M.A. (McGill), Ph.D. (Cambridge), *literary and cultural theory, Anglo-American and European, esp modern and post-modern, science fiction, the technological imaginary, moral panic, biopolitics*. **V. Hollinger**, M.A., Ph.D. (Concordia), *queer and feminist fantastic fiction, feminist theory, post-modern theatre*. **S. H. W. Kane**, B.A.

(Carleton), M.A., Ph.D. (Toronto), *oral literature and poetics, mythology and modernity, medieval and Renaissance thought*. **A. O'Connor**, B.A. (Trinity College, Dublin), M.A., Ph.D. (York), *media and communication*. **D. Panagia**, B.A. (Winnipeg), M.Litt. (Oxford), M.A., Ph.D. (Johns Hopkins), *post-structuralism, liberalism, history of political thought, aesthetics, literary theory and rhetoric*.

D. F. Theall (Emeritus), B.A. (Yale), M.A., Ph.D. (Toronto), *cultural/communication/literary theory, technology and culture, media studies, James Joyce, Marshall McLuhan*. **Y. Thomas**, M.A., Ph.D. (Montréal), *avant-garde, dada, surrealism, situationism, critical urbanism, Avant-garde movements of the 1920s, COBRA, the Situationist International and avant-garde journals*. **D. Torgerson**, B.A. (California-Berkeley), M.E.S. (York), M.A., Ph.D. (Toronto), *critical theory, political action, public spheres, policy discourse, green political thought, cultural politics*. **A. L. Wernick**, M.A.

(Cambridge), M.A., Ph.D. (Toronto), *modern and post-modern social and cultural theory, religion, and post-commodification and culture*.

English Literature

R. Dellamora (see Cultural Studies). **C. Eddy**, M.A. (Western Ontario), Ph.D. (Toronto), *feminist cultural theory, performance theory, contemporary science fiction, popular culture*. **J. Fekete** (see Cultural Studies). **S. H. W. Kane** (see Cultural Studies). **D. F. Theall** (Emeritus) (see Cultural Studies).

Environmental & Resource Science/Studies

D. Holdsworth, M.Sc. (McMaster), Ph.D. (Western Ontario), *environmental thought/ environmental ethics, science and energy policy, risk assessment/analysis, scientific practice and political culture, algebraic logic and the foundations of quantum theory, non-standard logic and category theory*. **D. Torgerson** (see Cultural Studies).

Modern Languages & Literatures – French Studies

Y. Thomas (see Cultural Studies).

Philosophy

C. V. Boundas, (Emeritus) M.A., Ph.D. (Purdue), *Deleuze's philosophy, theory of difference, postmodernism, post-structuralism, Desire, Minoritarian literature, Nomadism, Schizoanalysis*.

R. Carter (Emeritus) M.Div. (Harvard), M.A., Ph.D. (Toronto), *comparative philosophy, comparative ethics, Japanese philosophy, Chinese philosophy, the Kyoto School, science and religion*.

B. Hodgson, M.A. (Toronto), Ph.D. (Western Ontario), *philosophical foundations of the natural and human sciences, contemporary epistemology/metaphysics*. **D. Morris**, M.A., Ph.D. (Toronto), *the body, movement, perception, thinking, the unconscious*. **E. Stavro**, M.A., Ph.D. (Toronto), *feminist theory, contemporary French philosophy, reproductive technology*.

Political Studies

D. Torgerson (see Cultural Studies).

Sociology

P. Bandyopadhyay, M.A. (Oxford), Ph.D. (Manchester), *inter-religious and inter-cultural studies, liberalism and contractarian social philosophy, comparative jurisprudence*. **S. Katz**, M.A. (McGill), Ph.D. (York), *sociology of the body, knowledge, Foucault, aging and the lifecourse*. **B. Marshall**, M.A. (Guelph), Ph.D. (Alberta), *critical and feminist theories, social movements (esp. feminism)*.

Women's Studies

C. Eddy, (see English Literature). **B. Marshall**, (see Sociology). **E. Stavro**, (see Philosophy).

Regulations

The general regulations and requirements of Trent University for the M.A. degree apply to the Theory, Culture and Politics program.

The admission deadline is February 1 for Fall admission into the program. Admission is competitive for a limited number of places. To be considered, applicants should have an Honours degree with a minimum B+ (77%) in the last two years of full-time study, demonstrated aptitude for interdisciplinary study, and an appropriate area of intellectual and research interest. Course work, amounting to 2.5 full course equivalent, is required as follows:

- a) The Theory, Culture and Politics Seminar (T500)
- b) Two core half-courses, to be selected from a list of available special topic courses within the program's areas of emphasis
- c) One other half course, an elective (which may be a regular course offering or a reading course), specifically related to the student's area of thesis interest.

Students are also required to write a Master's thesis of 25,000 to 30,000 words. The thesis will be supervised by a committee consisting of at least two faculty associated with the program, one of whom will serve as overall thesis supervisor. The Supervisory Committee is selected in consultation with the Program Director. A provisional committee will be selected during the first term and finalized by the end of the second term. Students are required to write and present a thesis proposal as part of the second term requirements for T500.

Students must attain at least a B- (70%) standing in the course work and, after approval by the supervisory committee, pass an oral examination in defence of the thesis.

There is no special language requirement, though additional requirements appropriate to the candidate's field, including with regard to language, may be specified by the supervisory committee.

The expected time of completion of the degree is two years.

Financial Support

A limited number of Graduate Teaching Assistantships and Research Fellowships are available for full-time students admitted to the program. These awards are made at the point of admission, normally for two years. The availability of these awards is kept under continual review and they may be allocated at any time throughout the admissions process, and even after. In addition to bursaries and scholarships available from Trent (information from the Student Aid Office), students in, or applying to, the program are strongly encouraged to seek external forms of support.

COURSES AVAILABLE

TCPS 500 – Seminar on theory, culture and politics

The seminar brings together all first year students enrolled in the program for an intensive exploration of different contemporary theoretical perspectives bearing on culture and politics. The focus will be on problems of interpretation, language, cultural forms and political action in the context of a broadly defined theme which will vary from year to year.

Topics in Theory, Culture and Politics (5500 series)

These half-year courses focus on particular topics and approaches within the program's areas of emphasis. Students must take two from among those offered in a given year. The options available for 2004–2005 will include at least three of the following:

TCPS 5501H – Hermeneutics and deconstruction

TCPS 5502H – Science theory

TCPS 5503H – Aesthetic theory

TCPS 5504H – Subjects of desire

TCPS 5505H – Political theory

TCPS 5506H – Cultural theory

TCPS 5507H – Performance theory

TCPS 5508H – Media theory

TCPS 5509H – Feminist theory

TCPS 560H – Theory, culture and politics: Selected issues

TCPS 570 and 570H – Special courses

TCPS 590 – Reading course

M.Sc. and Ph.D. Programs in Watershed Ecosystems

Telephone: (705) 748-1011 ext. 1360
Fax: (705) 748-1026

E-mail: wegp@trentu.ca
Web: www.trentu.ca/wegp

The Watershed Ecosystems Graduate Program is an interdisciplinary program leading to either a M.Sc. or a Ph.D. degree in the natural sciences. It encompasses the following disciplines: Biology, Environmental Chemistry, Environmental Sciences and Geography. The program serves as a broad umbrella for these disciplines, and aims to assist students in exploring aspects of ecosystem science in an integrated way. The program draws from a diverse faculty from universities, non-government organizations, and government scientists. Two Canada Research Chairs and three NSERC Industrial Chairs are associated with the program. Students do research primarily in an empirical tradition, both applied and basic. They are encouraged to concentrate on interdisciplinary topics and to utilize the range of expertise and resources of the faculty members involved in the program. Trent University has an international reputation as a research university with particular emphasis in the environmental sciences. Graduate students in the Watershed Ecosystems program are an essential component of Trent's research tradition. The program also relies heavily on interaction with other institutions, for seminar speakers, external examiners, and collaborative research opportunities.

The program offers instruction in four main areas of emphasis:

1. Animal and Plant Ecology and Ecosystem Function
2. Physical and Chemical Environmental Processes
3. Toxicology and Fate of Contaminants
4. Conservation Biology

The aim of the program is to provide students with a background in the theory and practice of ecosystem science that will enable them to function at a high level in a variety of work environments.

Graduate Program Director

R. D. Evans

Faculty and Research Areas

Biology

M. Berrill, B.Sc. (McGill), M.Sc. (Hawaii), Ph.D. (Princeton), *ecology and toxicology of amphibians*. **N. Emery**, B.Sc. (Queen's), Ph.D. (Calgary), *physiological ecology of plants*. **R. Jones**, B.Sc. (Wales), M.Sc. (Kansas), Ph.D. (Wales), (Emeritus). **C. Kapron-Bras**, B.Sc. (Waterloo), M.Sc., Ph.D. (McGill), *cellular and molecular mechanisms of embryonic toxicity and teratogenicity*. **D. C. Lasenby**, B.Sc. (Trent), Ph.D. (Toronto), *limnology, biological, physical and chemical aspects of lakes*. **D. Murray**, B.Sc. (McGill) M.Sc. (Alberta) Ph.D. (Wisconsin), *mammal and amphibian ecology, population dynamics, behavioural ecology, predation, parasitism* (Canada Research Chair in Terrestrial Ecosystem Science). **E. Nol**, B.Sc. (Michigan), M.Sc. (Guelph), Ph.D. (Toronto), *conservation ecology of birds*. **P. M. Powles**, B.A., (McGill), M.Sc. (Western Ontario), Ph.D. (McGill), (Emeritus). **J. A. Schaefer**, B.Sc. (McGill), M.Sc. (Manitoba), Ph.D. (Saskatchewan), *behaviour and population dynamics of terrestrial mammals*. **J. Sutcliffe**, B.Sc. (Waterloo), M.Sc., Ph.D. (Toronto), *ecology and sensory physiology of biting flies*. **B. N. White**, B.Sc. (Nottingham), Ph.D. (McMaster), *genetics, molecular biology, population genetics of small populations and endangered species, DNA forensic science* (Canada Research Chair in conservation genetics). **P. Wilson**, B.Sc., M.Sc., Ph.D. (McMaster), *evolutionary genetics, DNA profiling*.

Environmental & Resource Science

P. J. Dillon, B.Sc., M.Sc., Ph.D. (Toronto), *nutrient cycling, trace metals, acid precipitation studies* (NSERC Industrial Research Chair in Biogeochemistry). **R. D. Evans**, B.Sc. (Toronto), Ph.D. (McGill), *environmental biogeochemistry, trace metal cycling*. **W. F. J. Evans**, B.A., M.A., Ph.D. (Saskatchewan), F.R.S.C., *ozone depletion, global warming*. **M. Fox**, B.A. (Pennsylvania), M.E.DES. (Calgary), Ph.D. (Queen's), *fish ecology, pond culture*. **M. Havis**, B.Sc., Ph.D. (Toronto), *acid precipitation, toxicity of metals and acidification*. **B. E. Hickie**, B.Sc.AGR. (Guelph), M.Sc., Ph.D. (Waterloo), *environmental toxicology, pharmacokinetic modelling* (Trent). **H. Hintelmann**, B.Sc., M.Sc., Ph.D. (Hamburg), *fate of metals in environment, bioavailability/speciation of metals and organometals, stable isotope methods and hyphenated ICP-MS techniques* (NSERC Industrial Research Jr. Chair in Environmental Modelling). **T. Hutchinson**, B.Sc. (Manchester), Ph.D. (Sheffield), F.R.S.C., *forest decline, terrestrial impacts*. **D. Mackay**, B.Sc. (Glasgow), Ph.D. (Glasgow), (Emeritus NSERC Industrial Research Chair in Environmental Modelling). **C. D. Metcalfe**, B.Sc. (Manitoba), M.Sc. (New Brunswick), Ph.D. (McMaster), *aquatic organic*

contaminants. **R. Ponce-Hernandez**, B.ENG. (Universidad, Chapingo), M.Sc. (Colegio de Postgraduados), D.Phil. (Oxford), *geographical information systems applied to suitability and impact assessments in agricultural and forest ecosystems*. **D. Wallschl ger**, M.Sc. (Bochum), Ph.D. (Bremen), *speciation of anion-forming trace metal(loid)s, particularly arsenic, selenium and chromium, in natural and industrial environments*. **T. H. Whillans**, B.A. (Guelph), M.Sc., Ph.D. (Toronto), *fisheries, wetland ecology, renewable resource management*.

Geography

J. M. Buttle, B.A. (Toronto), Ph.D. (Southampton), *hydrology, fluvial geomorphology*. **J. G. Cogley**, M.A. (Oxford), M.Sc., Ph.D. (McMaster), *hydrology, fluvial geomorphology, Arctic*. **P. M. Lafleur**, B.Sc. (Brandon), M.Sc. (Trent), Ph.D. (McMaster), *forest-atmosphere energy interactions, impacts of climatic change*. **J. Marsh**, B.A. (Reading), M.Sc. (Alberta), Ph.D. (Calgary), (Emeritus). **C. L. McKenna Neuman**, B.Sc. (Queen's), M.Sc. (Guelph), Ph.D. (Queen's), *process geomorphology, mechanics of sediment transport, periglacial/ coastal aeolian geomorphology*. **C. H. Taylor**, M.A. (Canterbury), Ph.D. (McGill), *hydrology, fluvial geomorphology*.

Adjunct Professors

K. F. Abraham, B.A. (Toronto), M.Sc. (Iowa), Ph.D. (Queen's), *wetlands, waterfowl and wetland bird species* (Ontario Ministry of Natural Resources). **N. Belzile**, B.Sc.; M.Sc., Ph.D., (Quebec), *speciation and behaviour of toxic trace elements in aquatic systems*. **E. Bentzen**, B.Sc. (McGill), M.Sc., Ph.D. (Waterloo), *nutrient cycling and contaminant bioaccumulation in lakes, aquatic food web dynamics*, (Trent). **J. Bowman**, B.Sc. (Queen's), M.Sc. (Laurentian), Ph.D. (New Brunswick), *spatial population ecology, landscape ecology, ecology of mammal and bird populations* (Ontario Ministry of Natural Resources). **L. M. Carl**, B.Sc. (Michigan), M.Sc. (Michigan), Ph.D. (Michigan), *impacts of development on aquatic communities*, (Ontario Ministry of Natural Resources). **J. Casselman**, B.SA (Toronto), M.Sc. (Guelph), Ph.D. (Toronto), *physiology and ecology of coolwater fish* (Ontario Ministry of Natural Resources). **R. J. Cornett**, B.Sc. (Toronto), Ph.D. (McGill), *interactions of radiolotopes with ground water and lakes* (Atomic Energy of Canada). **J. C. Davies**, B.Sc. (Carleton), Ph.D. (Queen's), *caribou, moose habitat, wetland creation* (Ontario Ministry of Natural Resources). **D. O. Evans**, B.Sc. (Victoria), M.Sc., Ph.D. (Toronto), *ecosystem health and productivity, fisheries management* (Ontario Ministry of Natural Resources). **D. A. Galbraith**, B.Sc., M.Sc. (Guelph), Ph.D. (Queen's), *population and conservation genetics, environmental sex determination* (Royal Botanical Gardens). **J. Hamr**, B.Sc. (Beloit), M.Sc. (Guelph), Ph.D. (Innsbruck), *elk restoration in Ontario, population dynamics* (Laurentian). **T. Harner**, B.Sc., M.Sc., Ph.D., (Toronto), *environmental partitioning and fate of persistent organic pollutants (POPs)* (Environment Canada). **D. R. S. Lean**, B.A.Sc (Toronto), Ph.D. (Toronto), *phosphorus cycling, nutrient dynamics* (NSERC Industrial Chair, Carleton). **N. Mandrak**, B.Sc., M.Sc., Ph.D. (Toronto), *biogeography, biodiversity and conservation biology of freshwater fishes* (Department of Fisheries & Oceans). **L. A. Molot**, B.Sc., M.Sc. (Toronto), Ph.D. (Alaska), *photochemical control of carbon dynamics in lakes, modelling nutrient and carbon movement through the boreal landscape* (York). **M. E. Obbard**, B.A. (Western), M.Sc. (Guelph), Ph.D. (Guelph), *black bear populations* (Ontario Ministry of Natural Resources). **B. Patterson**, B.Sc. (New Brunswick), M.Sc. (Acadia), Ph.D. (Saskatchewan), *dynamics of vertebrate predator-prey systems* (Ontario Ministry of Natural Resources). **B. Pond**, B.A. (York), M.A., Ph.D., (Queen's), *response of wildlife populations and ecosystems to anthropogenic disturbance, particularly private land development* (Ontario Ministry of Natural Resources). **T. D. Prowse**, M.Sc. (Trent), Ph.D. (Canterbury), *hydrology of northern rivers, particularly ice jams* (Environment Canada). **M. D. Ridgway**, B.Sc. (Miami), M.Sc. (British Columbia), Ph.D. (Western Ontario), *aquatic ecosystem science* (Ontario Ministry of Natural Resources). **R. C. Rosatte**, B.Sc. (Guelph), M.A. (Norwich), Ph.D. (Walden), *rabies and rabies vectors in Ontario* (Ontario Ministry of Natural Resources). **K. Somers**, B.Sc. (Waterloo), M.Sc. (Toronto), Ph.D. (Western Ontario), *aquatic science, zoology, environmental monitoring and assessment* (Ontario Ministry of the Environment). **C. C. Wilson**, B.Sc. (Queen's), M.Sc. (Windsor), Ph.D. (Guelph), *evolutionary ecology and biogeography of freshwater organisms*, (Ontario Ministry of Natural Resources). **Q. Xie**, B.Sc. (Wuhan, China), M.Sc. (Beijing), Ph.D. (Saskatchewan), *trace elements and isotopes as environmental tracers* (Trent Water Quality Centre).

Research Associates

D. Burke, B.Sc. (Western Ontario), Ph.D. (Trent), *forest and avian conservation and ecology* (Ministry of Natural Resources). **W. Crins**, B.Sc. (Guelph), M.Sc., Ph.D. (Toronto), *ecological gap analysis, protected area system design* (Ontario Ministry of Natural Resources). **M. Ferguson**, B.Sc. (Carleton), M.Sc. (Wisconsin), Ph.D. (Saskatchewan), *population dynamics of arctic ungulates*, (Gov't of Nunavut). **C. Kyle**, B.Sc. (Bishop's), M.Sc. (Guelph), Ph.D. (Alberta), *conservation and population*

genetics, molecular ecology. **R. Metcalfe**, B.A., M.A. (Wilfrid Laurier), Ph.D. (Queen's) (Ontario Ministry of Natural Resources), *basin-scale runoff processes in cold regions, GIS and remote sensing applications in hydrology*. **W. J. Mills**, B.Sc. (Trent), M.Sc. (McMaster), Ph.D. (Illinois), *environmental fate and transport of chemicals, source identification and remediation technologies, hydrology* (Mills Consulting Inc.). **S. Nadin-Davis**, B.A. (Cambridge, UK), M.Sc. (Dalhousie) Ph.D. (Ottawa), *molecular epidemiology* (Canadian Food Inspection Agency). **D. Nsengiyumva**, B.Sc. (Rwanda), M.Sc. (Laval), Ph.D. (McGill), *application GIS to soil and water management, applied modelling of hydrological processes* (Fleming College). **T. Pratt**, B.Sc. (Manitoba), M.Sc., Ph.D. (Trent), *fish ecology, fish-habitat association, sea lamprey control* (Fisheries and Oceans Canada). **J. Winter**, B.Sc. (Liverpool, U.K.), M.Sc. (Manchester, U.K.), Ph.D. (Waterloo), *human/aquatic system interactions, nutrient modeling, landscape analysis* (Ontario Ministry of Environment).

Note: Adjunct professors and research associates have full academic appointments in the Watershed Ecosystems Program and are able to act as principal and co-supervisors of graduate students, respectively.

Regulations

The general regulations and requirements for graduate degrees at Trent University apply to the Watershed Ecosystems program. Application for admission should be received by February 1 for consideration for scholarships, bursaries and teaching assistantships for Fall admission into the program. A small number of students are admitted in January. Applicants should hold an undergraduate Honours degree in Biology, Environmental Chemistry, Environmental Science or Geography. A qualifying year can be arranged for those who lack sufficient background to be admitted to the program, but no guarantee of subsequent admission to the program is implied. *WEGP500H* is compulsory for all first-year M.Sc. students. Students without training in advanced statistics are strongly recommended to take *WEGP501H* as well. Candidates for the M.Sc. degree will be required to complete the equivalent of two full courses and to submit a thesis on an approved topic that relates to the interests of a member of the faculty as outlined above. Prospective Ph.D. students will normally have a M.Sc. degree. Applicants who have achieved excellent standing at the Honours baccalaureate level, and who wish to proceed directly to Doctoral study, will enrol, initially, in a Master's degree. If the student achieves a superior academic record and shows particular aptitude for research, the Graduate Studies Committee, on the recommendation of the Watershed Ecosystems program executive, may authorize transfer to the Ph.D. program without requiring completion of the M.Sc. degree. Candidates for the Ph.D. degree will be required to complete 1.5 credits, in addition to the thesis. For both degrees, the thesis is expected to include the results of an original investigation. Ph.D. candidates must undertake an oral comprehensive examination, normally within the first year of study. The examination will establish, to the satisfaction of the program, that the student has an effective grasp of her/his research area. Degree candidates (M.Sc. and Ph.D.) have the option of submitting their thesis either in the "traditional" or "manuscript" format. Candidates must pass an oral examination in defence of their thesis research. Students must have a supervisor before acceptance in the program. Candidates must attain at least a second class standing in all course work to remain registered in their program. The expected time for completion is two years for the M.Sc., four years for the Ph.D., and five years for those who transfer to the Ph.D. program before completion of the M.Sc.

Financial Support

Full financial support is provided (minimum of six terms for M.Sc. students and nine terms for Ph.D. students), in the form of teaching assistantships, research assistantships and/or scholarships. Candidates are encouraged to apply for external scholarships on their own behalf. Information on scholarships is available from the Office of Research and Graduate Studies.

Further Information

More detailed information about the program is contained on-line at www.trentu.ca/wegp. Inquiries should be addressed to the director of the program (Phone (705) 748-1011 ext. 1360 or E-Mail: devans@trentu.ca)

COURSES

Not all courses are available every year.

WEGP 500H – Science and its methods

This course, which is mandatory for all first year M.Sc. students, will challenge participants to examine their philosophy of science with particular reference to their own research. Students also present and defend their research proposals. *R.D. Evans and staff*

WEGP 501H – Research design and data analysis

The course will emphasize advanced statistical techniques for use in field and laboratory studies, including applications of linear and non-linear models, analysis of variance and multivariate statistics. This course is highly recommended for students who have not taken an advanced statistics course (e.g. analysis of variance, multivariate statistics) as an undergraduate. An introductory statistics course is required as a prerequisite. Excludes *Biology – Environmental & Resource Science 303H. E. Nol*

WEGP 505H – Hydrochemical fluxes in the hydrosphere

This course will examine techniques for monitoring hydrochemical fluxes within the hydrological cycle. The curriculum will cover problems relating to the measurement of variables such as discharge, soil moisture, organic and inorganic constituents in the saturated and unsaturated zones, atmospheric vapour fluxes, precipitation and snowcover. The focus of the lectures and labs will be on measurement, sampling techniques, and instrumentation. Course material will complement statistical concepts covered in WE501H. Excludes *Geography 404H. J. Buttle*

WEGP 506H – The geochemistry of natural waters

This course will examine the chemistry of freshwater systems. Chemical and physical processes that lead to changes in water quality will be discussed. The emphasis will be on the concentrations and distributions of contaminants. Topics include watershed contributions of chemicals, acidification and the carbonate system, weathering, redox chemistry, trace metals and synthetic organic contaminants – Excludes *Environmental & Resource Science 406H. R.D. Evans*

WEGP 507H – The fate of contaminants in the aquatic environment

This course will emphasize the mathematical modelling of the fate and distribution of aquatic contaminants, including models for toxic metals, organic xenobiotics and groundwater contaminants. The course will examine the basic algorithms and assumptions of contaminants models, and will give the students hands-on experience in applying existing models (e.g. MINTEQ, QWASI). An emphasis will be placed on using models to determine the dominant pathways influencing the fate of inorganic and organic contaminants in the aquatic environment. Excludes *Biology – Environmental & Resource Science – Geography 407H. D. Wallschläger*

WEGP 509H – Trends in ecology and evolution

This course examines new developments in ecology, behaviour and evolution, based upon the current journal literature. Topics range from sexual selection, game theory, and optimality to assessing biodiversity and ecosystem stability. Students will take an active role in the presentation of course material. Specific choice of topics will be determined by course participants. Students should have taken one course in animal behaviour and ecology. A familiarity with population genetics, ecology and basic evolutionary theory will be assumed. *M. Berrill, E. Nol and J. Schaefer*

WEGP 511H – Spatial modelling with GIS

This advanced level course will focus on quantitative modelling techniques used in conjunction with and/or within Geographical Information Systems (GIS) to model natural and anthropogenic spatial phenomena. There will be instruction on a range of theoretical constructs and derived techniques (e.g. spatial, remote sensing, geostatistical, mathematical, cartographical, etc.) and their interface with GIS. This course is also open to graduates of the Trent-Fleming joint programs in GIS. Prerequisite: an introductory-level of GIS Applications Specialist Certificate (or equivalent) and basic knowledge of Statistics. Excludes *Geography 445. Ponce-Hernandez*

WEGP 513H – Topics in molecular ecology

This course will consist of three weeks of lectures by the instructors to introduce molecular tools and methods for studying individuals and populations, as well as some example applications. The balance of the course will entail discussion of seminal and current literature relating to issues in molecular ecology. Students will be expected to lead and participate in discussion of published papers; present seminars, and write a review paper on a selected topic. *C. Wilson*

WEGP 514H – Topics in fish ecology

The purpose of this course is to expose students to important literature and methods in the study of ecological processes in fish populations and communities as well as the current research interests and work of the participating faculty. Some topics which may be covered include processes shaping riverine fish communities, scale and sampling issues in study design, habitat, fish community dynamics and conservation biology issues in Ontario. *D.O. Evans and C. Wilson*

WEGP 515H – AMOD515H – Statistical aspects of modeling

This course is designed to be an intensive study of the application of statistical techniques to a variety of research questions and designs. Students will also be introduced to the use of

computer software tools for data entry, data management, and statistical analysis. This course also provides coverage of the following: multiple regression, logistic regression, analysis of variance techniques (and analysis of covariance), factor analysis, discriminant function analysis, and structural equation modelling. *J. Parker*

WEGP 526H – Wetland restoration and creation

This is a seminar course that explores the global literature on wetland restoration and creation. The course will compare explicitly the technological and ecological experiences with different wetland types and situations, in order to determine opportunities and limitations. At least one field trip will be required. The course assumes a basic knowledge of wetland ecology and is designed for students who have taken a first course in wetland biology or who have equivalent experience. *T. Whillans*

WEGP 527H – Ecological applications of GIS and spatial analysis

This course focuses on the application of GIS and spatial analysis to research questions in the natural sciences, particularly in animal ecology. It addresses practical and theoretical issues that arise in using spatial data. Topics covered may include spatial experimental design, geo-referencing systems, data management, landscape ecology, derivation of surfaces and analysis of point patterns, spatial associations and animal habitat use patterns. Course content will be tailored to meet student requirements. Examples from recent literature will be used to demonstrate applications of spatial data to ecological questions. Knowledge of multivariate statistics is a pre-requisite for the course. Enrollment is limited. *B. Pond, J. Bowman and D. Nsengiyumva*

WEGP 528H – Technical scientific writing

Emphasis in this course is on technical science writing for peer-reviewed journals. In addition to writing strategies and writing styles, issues pertaining to authorship, journal selection, the review process, corresponding with editors are discussed. By the end of the year, students will submit a paper to a peer-reviewed journal. Recommended for graduate students in their final year of study. This is a half credit course that runs the entire academic year with fortnightly workshops. The course is offered alternate (odd-numbered) years. *M. Havas*

WEGP 530H – Advanced aquatic geochemistry

The course is intended to engage students in discussions of current topics in aquatic geochemistry. To as great an extent as possible, the course material will be chosen to reflect the research interests of the participants. It is assumed that participants have had an introductory course in geochemistry or aquatic chemistry. Course material will focus largely on geochemical factors that affect the fate and toxicity of inorganic contaminants. Topics to be covered will include: the sources of dissolved organic compounds and their role in mobilization and fate of metals and metalloids, trace metal speciation, thermodynamics vs kinetics as controlling factors, reactions on solid surfaces, equilibrium modelling of aquatic systems, critical load models, and whole ecosystem fate models. *R.D. Evans*

WEGP531H – Molecular genetic techniques and analyses

The advanced infrastructure of the Natural Resources DNA Profiling & Forensic Centre (NRDPFC) provides a unique opportunity to study molecular genetic techniques in the context of the most recent advances in high-throughput genotyping through automated and robotic technology. The objective of this course is to cover: 1) The key principles of molecular genetic techniques through manual protocols as they relate to recently developed automated processes; and 2) Analyses of the DNA profiles and sequences generated from an automated dataflow. *B. White and C. Kyle*

WEGP 537H – Microbial ecology

The field of microbial ecology is the study of a highly diverse and dynamic group of organisms at the low end of food webs. This course will cover several basic areas of microbial ecology: identification, enumeration & diversity, including consideration of the types of microbes with emphasis on the aquatic environment biomass activity, respiration, growth, nutrient regeneration, organic matter decomposition, food webs and trophic interactions. *Staff*

WEGP 538H – Water in the subsurface environment

This course will examine the nature, occurrence and movement of water in soil and groundwater systems. Physical and chemical aspects of groundwater will be addressed, and the use of field techniques and mathematical models in the study of groundwater movement and contamination will be emphasized. *J. Buttle*

WEGP 539H – Spatial and temporal statistics for natural resources

This course examines both the theoretical underpinnings and the practical application of spatial and temporal statistical analysis methods and their integration into an analytical framework appli-

cable to various spatial and temporal data sources for natural resource assessment and management. Practical data analysis exercises are part of the course. *R. Ponce*

WEGP 542H – Forensic science

The objectives of this course are for students to learn: 1) fundamental forensic principles including evidence collection, continuity-of-evidence, quality assurance, reporting scientific evidence and court presentation; and 2) different applications within forensics, e.g. DNA profiling, toxicology, anthropology and ballistics. The first phase of the course on basic principles will be covered through lectures and practical exercises. The second phase of the course on specific applications will be covered by expert lecturers employed in actual forensic services. *P. Wilson and C. Kyle*

WEGP 543H – Ecosystem acidification

This course will focus on the factors that cause ecosystem acidification, the chemical and biological effects, biogeochemical cycles that are altered by acid deposition, critical loads of sulphur and nitrogen, and recovery processes in lakes and catchments. Both terrestrial and aquatic ecosystems will be included. The focus will be on modelling, including both steady-state and dynamic models. Prerequisite: 4th year geochemistry. *P. Dillon and J. Cosby*

WEGP 544H – Experimental and observational approaches to ecology

This course will look at how ecologists answer questions. The emphasis will be on aquatic ecology, but will be helpful to those in other areas of ecology. The course will cover both experimental and observational approaches as well as looking at a range of methods from beakers, limnocolonies, to whole lake studies and modelling. Guest speakers will present different approaches that they use in their research. Students will be asked to consider and discuss their own research. *D. Lasenby*

WEGP 590 – Reading course

This course option is available for graduate students who wish to receive instruction in a more discipline-specific course. The exact format of the course is designed by the student in consultation with the supervisory committee. A written justification for the need for this course must be made to the program director and must be arranged before registration for the course. The reading course can be a literature review or a small research project. In the case of an undergraduate course taken for credit, a graduate student would normally have to complete an additional graduate-level assignment. Under exceptional circumstances, and subject to program approval, a student can also register under the WEGP590 course number to take a course from another academic institution for credit.

Trent/Queen's Program

Telephone: (705) 748-1011 ext. 1505

E-mail: graduate@trentu.ca

Fax: (705) 748-1625

Web: www.trentu.ca/tqgg

Under the terms of an agreement between Trent University and Queen's University at Kingston, faculty of Trent University may undertake the supervision and instruction, at Trent University, of graduate students enrolled for Master's or Ph.D. degrees at Queen's University. The Trent faculty members who participate in this arrangement will have been appointed as adjunct faculty to the graduate school at Queen's University.

Students who wish to enrol in the Trent/Queen's program and pursue graduate study at Trent University must complete a Queen's University application form available from the Office of the Associate Director or from the Office of Research and Graduate Studies at Trent University. The completed application and all supporting documentation must be initially forwarded to the Office of Research and Graduate Studies at Trent University.

Associate Director

H. Hintelmann, B.Sc. Ph.D (Hamburg)

Trent Faculty Currently Holding Adjunct Appointments at Queen's

These are listed under the collaborating departments:

Ancient History & Classics

I. C. Storey, M.A. (Toronto), M.Phil. (Oxford), Ph.D. (Toronto), *Greek drama (especially Euripides and Aristophanes)*.

Chemistry

H. Hintelmann, B.Sc., Ph.D. (Hamburg), *fate of metals in environment, bioavailability/speciation of metals and organometals, stable isotopes and hyphenated ICP-MS techniques*. **E. Lewars**, B.Sc. (London), Ph.D. (Toronto), *computational chemistry studies of theoretical interest*. **K. B. Oldham**, Emeritus, D.Sc., Ph.D. (Manchester), F.R.I.C., F.C.I.C., *electrochemistry*. **J. M. Parnis**, B.Sc., Ph.D. (Toronto), *transition metal cluster reactivity with hydrocarbons and organoclinorganic molecules, matrix isolation spectroscopy of atom/molecule reactions and ion decomposition processes*. **S. P. Rafferty**, B.Sc. (Waterloo), Ph.D. (British Columbia), *protein chemistry, recombinant expression and characterization of metalloproteins*. **I. Svishchev**, M.Sc. (Moscow State), Ph.D. (USSR Academy of Sciences), *physical environmental chemistry and molecular dynamics simulations*. **A. Vreugdenhil**, B.Sc. (Queens), Ph.D. (McGill), *hybrid materials, sol-gel chemistry, triggered release of small molecules, encapsulation of laser ablated nanoparticles*.

Environmental & Resource Science/Studies

D. Wallschlager, M.Sc. Ph.D. (Germany), *speciation of anion forming trace metal(oid)s, particularly arsenic, selenium and chromium, in natural and industrial environments*.

Geography

J. M. Buttle, B.A. (Toronto), Ph.D. (Southampton), *water and solute transport in the unsaturated zone, hydrochemical fluxes in forest and wetland environments, hydrological effects of land use change, hydrological modelling*. **P. M. Lafleur**, B.Sc. (Brandon), M.Sc. (Trent), Ph.D. (McMaster), *energy and water balances, carbon cycling, climate change*.

Physics

W. A. Atkinson, M.Sc. (Alberta), Ph.D. (McMaster), *condensed matter theory*. **J. W. Jury**, M.Sc., Ph.D. (Toronto), *subatomic physics*. **D.R. Patton**, B.Math (Waterloo), Ph.D. (Victoria), *galaxy evolution, galaxy mergers*. **A. J. Slavin**, M.Sc. (Toronto), Ph.D. (Cambridge), *nanoscience of solid surfaces*. **R. Wortis**, B.Sc. (Harvard), M.Sc., Ph.D. (Illinois at Urbana Champaign), *superconductivity theory*.

Psychology

C. T. Smith, B.Sc. (Manitoba), M.A., Ph.D. (Waterloo), *sleep states, sleep mentation and memory processes*. **E. Scharfe**, B.A. (Western Ontario), M.A., Ph.D. (Simon Fraser), *attachment relationships across the lifespan, influence of attachment representations on coping with life transitions*.

Financial Support

All graduate students enrolled at Queen's University and resident at Trent are eligible for financial support from funds normally available at Queen's.

Financial support may be available to graduate students as compensation for assistance in teaching and research. Details are arranged individually by the supervisor of each graduate student. For further information write to the Associate Director.

COURSES AVAILABLE TO GRADUATE STUDENTS: TRENT/QUEEN'S PROGRAMS

Not all courses are available every year.

Trent does not offer single-discipline graduate programs in Chemistry or Physics. However, approved graduate courses listed below may be available for credit in Trent's Applications of Modelling program, the Trent/Queen's Co-operative Program in Graduate Studies or through other special arrangements such as the Ontario Graduate Visiting Student Plan. If taken in the Modelling program, these courses would be given an AMOD 501H or AMOD 502H designation.

Ancient History & Classics

Greek 590: Special topic in Greek literature

Latin 590: Special topic in Latin literature

Classical History 590: Special topic in ancient history

Chemistry

Chemistry 500H: Advanced topics in physical chemistry

Chemistry 501H: Electrochemistry

Chemistry 502H: Chemical processes

Chemistry 511H: Synthetic organic chemistry

Chemistry 520H: Selected topics in inorganic chemistry

Chemistry 530H: Plant metabolism

Physics

- Physics 500H: Quantum mechanics*
- Physics 501H: Advanced quantum mechanics*
- Physics 510H: Surface science*
- Physics 520H: Nuclear physics*
- Physics 530H: Statistical mechanics*
- Physics 540H: Solid state physics*
- Physics 550H: Electromagnetism*
- Physics 551H: Electrodynamics*
- Physics 590: Advanced topics*

RESEARCH CENTRES AND INSTITUTES

Trent University has a number of interdisciplinary Research Centres and Institutes which represent clusters of faculty and graduate students with shared research interests. These Centres and Institutes foster academic discussions, support visiting speakers' series and workshops, and conduct collaborative research. In some cases, they are heavily involved in graduate student training, from the selection of graduate students into programs to the delivery of graduate courses and evaluation of theses. In other cases, they are not directly affiliated with particular graduate programs, although graduate students are involved in research within them. Overall, the Centres and Institutes provide an exciting academic environment for graduate students and faculty at Trent. For further information on Research Centres and Institutes check www.trentu.ca/research.html.

Canadian Environmental Modelling Centre

Contact: **D. Mackay**, NSERC/Industry Research Chair

E-mail: cemc@trentu.ca

The mission of the Canadian Environmental Modelling Centre is to contribute to improved management of chemicals in our environment, by acquiring and analysing appropriate data and developing, validating and disseminating mass balance models which describe the fate of chemicals in the environment. The objective of the Centre is to understand and predict quantitatively the pathways of contaminant transport and the resulting exposure. When we can establish a quantitative link between sources, exposure and risk of effects, we are in a strong position to control sources to acceptably low levels, avoiding the problems of unacceptable contamination from excessive sources on the one hand, and uneconomic, unnecessary regulations on the other. Emphasis at the Centre is placed on training undergraduate and graduate students in environmental science, on co-operation with the other faculty at Trent, and on providing research services relevant to current Canadian and International needs.

Centre for the Study of Theory, Culture & Politics

Contact: **D. Torgerson**, Cultural Studies

E-mail: theory@trentu.ca

The Centre for the Study of Theory, Culture & Politics encourages research and teaching guided by critical/theoretical orientations that have emerged from contemporary developments in the humanities and social sciences. These orientations test the limits of conventional disciplines and contribute to the study of the complex network of relations that links knowledge, culture and politics. The Centre is concerned with fostering substantive projects of research as well as fundamental reflection on conceptual and methodological issues. The Centre aims to integrate teaching and research, and to encourage the work of both emerging and established scholars. It promotes scholarly research and interchange through conferences, symposia, and speakers series as well as through specific research projects and publications. An M.A. program is an important activity of the Centre. The Centre is a member of the Consortium of Humanities Centers and Institutes. www.chcnetwork.org.

Frost Centre for Canadian Studies & Native Studies

Contact: **J. Sangster**, History, Women's Studies

E-mail: jsangster@trentu.ca

Established in 1982, the Frost Centre is named in honour of Leslie Frost, the first Chancellor of Trent University. The Centre encourages interdisciplinary research in Canadian Studies and Native Studies. It is administered by a Director, an Administrative Assistant and a Board composed of graduate students and faculty. The Board meets regularly to decide matters of policy and to monitor research initiatives. The Centre administers two graduate programs: the M.A. in Canadian Studies & Native Studies (see p. 325), and the Ph.D. in Canadian Studies jointly administered by the Frost Centre and the School of Canadian Studies at Carleton University (see p. 329). The Frost Centre works closely with Trent's established departments in the Humanities and Social Sciences as well as its interdisciplinary programs.

Institute for Health Studies

Contact: **D. Kennett**, Psychology

E-mail: dkennett@trentu.ca

The objectives of the Institute for Health Studies are to provide a focus for the different types of research conducted at Trent on various aspects of health, to assist researchers in obtaining research funding, to foster greater communication among health researchers within and outside the university, to serve as a link between Trent and other health institutions, to foster better communication to the general public of basic health research and its real-world applications, and to facilitate the training of students (both graduate and undergraduate) for careers and research in health-related fields. The Centre sponsors regular research colloquia and an annual lecture (or series) open to faculty and students, as well to health-care workers and others in the Peterborough community; occasional conferences, on different health-related themes (e.g., promoting healthy aging; issues in Aboriginal health-care delivery; psychological wellness and academic success); and workshops that support the continuing educational needs of health-care professionals.

James McLean Oliver Ecological Centre

Contact: **T. C. Hutchinson**, Environmental and Resource Science/Studies

E-mail: thutchinson@trentu.ca

The James McLean Oliver Ecological Centre, is located on Pigeon Lake, 45 minutes north of Trent's main campus. The 270-acre waterfront property serves as an Ecological Field Station and is being established as a national focus for long-term ecological and environmental research, in collaboration with other universities, government agencies, and local groups. A major focus is on climate change, on responses of ecosystems to pollutant stress and on aspects of biodiversity. The property contains a number of terrestrial and aquatic habitats with a rich diversity of flora and fauna. Accommodation is available on site for researchers and for undergraduate classes. The Centre is being developed carefully with areas set aside for long-term research over periods of five, 10, 25, and 50 years. This presents a unique research opportunity as researchers often have difficulties finding sites for even three- to five-year studies.

Trent Environmental Policy Institute

Contact: **S. Bocking**, Environmental & Resource Science/Studies

E-mail: sbocking@trentu.ca

The Trent Environmental Policy Institute (TEPI) promotes environmental policy research and communication, building on the strengths of the university research community and potential partners. Policy researchers at Trent are now active in areas such as natural resource management; trade, globalization and the environment; the history of environmental policy; and the environment and democratic governance. A special focus of TEPI is study of the roles of scientific expertise in environmental politics, at local, regional and global scales. Current institute research activities include: a study of the use of science in land use controversies in the Greater Toronto Area; a project on Great Lakes environmental science and policy (in collaboration with the International Association for Great Lakes Research); and a study of the recent history of environmental science in northern Canada.

Trent Institute for Materials Research

Contact: **A. Slavin**, Physics

E-mail: aslavin@trentu.ca

The Trent Institute for Materials Research fosters research at Trent leading to an improved understanding of the properties of materials of potential benefit to industry, and the training of highly qualified personnel in these areas. To do this, the Institute brings together Trent faculty with research interests in applied materials research, currently in the departments of Chemistry and Physics. Its goals are to improve communications and cross-fertilization of research among the faculty and their graduate students, develop research collaborations, and expose all of the participants to a broad spectrum of research, both experimental and theoretical, in the materials area. The Institute holds research seminars as part of, and in addition to, the weekly Physics/Chemistry seminar series. For more information, see www.trentu.ca/academic/physics/TIMR.

Trent International Political Economy Centre

Contact: **E. Helleiner**, International Development Studies E-mail: ehelleiner@trentu.ca

The Trent International Political Economy Centre is a newly established research centre housed in Champlain College. The Centre's aim is to strengthen Trent University's research capacity in the area of international political economy (IPE) through activities such as the sponsoring of an annual workshop, various academic talks, visiting scholars and publications. We are interested in research that examines not just issues that preoccupied classical IPE scholarship such as the relationships between states and markets, or power and wealth at the international and global levels. Equally important from our perspective is how these relationships interact with environmental issues, spatial and historical contexts, social hierarchies, and cultures and identities. In this age of "globalization," we are also keen to encourage research that calls into question the traditional separation between the political economy of "domestic/national" contexts and that of the "international/global" realm through explorations of the relationships between local, national, regional and global political economic processes and structures.

Trent University Archaeological Research Centre

Contact: **P. F. Healy**, Anthropology

E-mail: anthro@trentu.ca

Housed in a restored 19th-century historic log cabin located on the east bank of the Symons campus, the Trent University Archaeological Research Centre (TUARC) is dedicated to the interdisciplinary investigation and understanding of past cultures through studies of artifacts, analysis of field, laboratory, and archival data, and the education of students and interested community members by publications and lectures. TUARC is a unique research institute which manages academic and research facilities for professional archaeologists, researchers, graduate students, and volunteers. It sponsors conferences, workshops and courses on archaeology. Research facilities include specialized laboratories for Human osteology, Mesoamerican archaeology, Ontario archaeology, Paleo-DNA studies, South American archaeology, and Zooarchaeology. A new Geographical Information Systems (GIS) teaching and research laboratory, for spatial analysis in archaeology, has been approved for 2004-2005, with appointment of a Canada Research Chair (CRC) in Archaeological Studies. In addition, a Pre-Columbian Aboriginal Art Resource Room and Library is maintained. TUARC assists with the publication of the findings of associated scholars, and organizes public lectures on recent archaeological discoveries and advances. The M.A. program in Anthropology, with a focus on "archaeology, ethnohistory and art," is another major activity of TUARC.

Trent University Institute for Mass Spectrometry (TUIMS)

Contact: **R. March**, Chemistry

E-mail: rmarch@trentu.ca

This Institute, established in 1994 and approved by Senate in 1995, has a special focus on the practice of mass spectrometry. The objectives of TUIMS are to encourage and to promote research, scholarly activity, and training in the field of mass spectrometry and in the application of these techniques. Membership in TUIMS is open to all faculty engaged in research utilising mass spectrometry. Associate Membership is open to all part-time faculty, Post-Doctoral Fellows, and Graduate Students engaged in research utilising mass spectrometry, and faculty and friends having an expressed interest in mass spectrometry. An offspring of TUIMS is the Water Quality Centre. The Institute presents a regular seminar program.

Trent University Water Quality Centre

Contact: **P. Dillon**, Environmental & Resource Science/Studies, Chemistry and NSERC Industrial Research Chair

E-mail: pdillon@trentu.ca

The mission of the Trent University Water Quality Centre is to develop new analytical approaches to emerging issues in water protection and analysis. The Centre develops and refines techniques to the point where they can be used by end users, including industries, government agencies and analytical service providers. The Centre is not a routine analytical laboratory; rather it provides new tools to partners and clients to allow them to deal with emerging issues in a timely and cost-effective fashion. In order to accomplish this, the Centre seeks to form strategic partnerships with individuals and groups from many industrial, governmental and NGO sectors.

Watershed Biogeochemistry Centre

Contact: **P. Dillon**, Environmental & Resource Science/Studies, Chemistry and NSERC Industrial Research Chair

E-mail: pdillon@trentu.ca

The research program in Watershed Biogeochemistry was designed to evaluate the role of anthropogenically-induced stresses including sulphur (S) and nitrogen (N) emissions and deposition, climate change, trace metal contaminant inputs and excessive nutrient inputs on the chemistry and biology of ecosystems. The Centre focuses on lakes and their catchments located in the Muskoka-Haliburton region of south-central Ontario. One of the projects at the Centre is intended to improve our understanding of how biogeochemical processes in lakes' watersheds control their rate of degradation when the deposition of strong acids increases and how they recover when acid deposition rates decline. Research considers the effects of specific climate perturbations such as Summer droughts on the chemical and biological response of aquatic ecosystems, and attempts to differentiate between those effects mediated by changes in acid deposition and those brought about by a varying climate.

Watershed Science Centre

Contact: **Director, Research and Graduate Studies**

E-mail: wsc@trentu.ca

Alternate contact: **J. Gibbens**, Business Manager E-mail: jgibbens@trentu.ca

The Watershed Science Centre aims to further our understanding of physical and ecological processes governing watershed functioning and to transfer this knowledge to support resource management decision making at the watershed scale. This is achieved through a multi-disciplined partnership between Trent University, Fleming College and the Ministry of Natural Resources (MNR). Complementing this partnership is collaboration with other government agencies, academic institutions, non-government organizations, and the private sector. The Centre combines the strong research expertise in watershed ecosystem science of Trent University, extensive resource management and GIS (Geographical Information Systems) expertise of Fleming College, and the applied research, management and policy expertise of MNR. The partnership fosters the application of peer reviewed scientific research to resource management questions and the efficient transfer of that knowledge and related methods to practitioners. The Centre provides a focus for multidisciplinary watershed research with an emphasis on training and technology transfer related to watershed ecosystem management.

Academic Calendar 2004–2005



Personnel and Contact Information

BOARD OF GOVERNORS

Chair

J. Reid Morden, B.A., C.M.

Vice-Chair

Jane C. Dudas

Members

Daryl K. Bennett
 John C. Bernard, B.A.
 Roberta Bondar, B.Sc., M.Sc., Ph.D., M.D.,
 F.R.C.P.
 Peter A. Brieger, H.B.A., C.F.A.
 Douglas B. Brown, B.A.
 John T.P. Casserly, B.Sc.
 Dan Coholan, B.A., Ed.M., M.B.A.
 Richard Dicerni, B.A., M.P.A.
 Kimberly Fielding
 Michael J. Gough, B.A., LL.M., LL.B.
 Richard L. Krug, B.Comm.
 Ryan Kutschke
 Peter Lafleur, B.Sc., M.Sc., Ph.D.
 Ana P. Lopes, B.A.
 Lynn McDonald, B.A.
 Bonnie M. Patterson, B.A., M.L.S.
 Michael Peterman, M.A., Ph.D.
 Cecil A. Rabinovitch, B.A.
 Kathleen M. Ramsay, B.A.
 William J. Saunderson, F.C.A., D.U.
 Patricia H. Southern, B.Math., F.C.A.
 Edward W. H. Tremain, B.A., F.C.A.
 Len Vernon, B.Sc., C.A.
 J. Douglas Young, H.B.A.

Secretary

Nancy E. Simmons Smith

Honorary Members

Thomas J. Bata, C.C.
 Jalynn H. Bennett, B.A., C.M.
 Erica Cherney, B.Comm.
 John D. de Pencier, LL.D., F.I.C.C.
 Merritt E. Gordon, B.A.Sc., P. Eng.
 Jon K. Grant, B.A., LL.D.
 John G. McCarney, B.A., Q.C.
 Mary A. Mogford, B.A.
 David T. C. Moore, B.A., LL.D.
 Keith C. Pilley, B.Comm.
 Larry E. Seeley, M.A.Sc., Ph.D.
 Robert W. F. Stephenson, M.A., LL.B.
 James A. Swanston, B.A.
 Judith R. Wilder, B.A.
 Tod Willcox, B.Sc., P. Eng.
 Gary Wolff, B.A., M.B.A., F.C.A.

OFFICERS AND ADMINISTRATIVE PERSONNEL

Chancellor

Roberta Bondar, B.Sc., M. Sc., Ph.D., M.D.,
 F.R.C.P.

President and Vice-Chancellor

Bonnie M. Patterson, B.A., M.L.S.

Vice-President (Academic) and Provost

Susan Clark, B.A., M.A., Ph.D.

Acting Vice-President (Administration)

Garth Brownscombe, H.B.A., CGA

Vice-President (Advancement)

Susan M. Mackle, B.A.

Dean (Arts and Science)

Colin Taylor, M.A., Ph.D.

Dean (Research and Graduate Studies)

Chris Metcalfe, M.Sc. Ph.D.

University Secretary

Nancy E. Simmons Smith

University Registrar

Susan Salusbury, B.A.

Associate Vice-President (Human Resources)

David Mahy, B.Sc.

OFFICE OF THE PRESIDENT

President and Vice-Chancellor

Bonnie M. Patterson, B.A., M.L.S.

Senior Advisor to the President

Nancy E. Simmons Smith

University Secretariat

University Secretary

Nancy E. Simmons Smith

Secretary of Senate and Convocation

Dianne Choate, B.A.

Assistant University Secretary (Board)

Susan Bartsch, B.A.

Communications Office

Senior Director of Public Affairs

Don Cumming, B.A.

Co-ordinator, Institutional Research and Planning

Christopher Michael, M.A.

Director, Communications

Marilyn Burns, B.A.

OFFICE OF THE VICE-PRESIDENT (ACADEMIC) AND PROVOST

Vice-President (Academic) and Provost

Susan Clark, B.A., M.A., Ph.D.

Assistant to the Vice President (Academic)

Tara Harrington, B.Comm.

Dean of Arts and Science

Colin Taylor, M.A., Ph.D.

Assistant to the Dean (Arts and Science)

Joseph F. Muldoon, M.Sc.

Associate Dean of Arts and Science

and Principal, Julian Blackburn College

Murray Genoe, M.A., M.L.S., M. Phil., M.P.A.

Associate Dean of Arts and Science

(Teaching and Learning)

David Poole, MSc., Ph.D.

Associate Dean (Science)

To be named

Academic Skills Centre Director

Martin Boyne, M.A.

Dean of Research and Graduate Studies

To be named

Coordinator of Research & Graduate Studies

Cathy Smith, B.A., M.Ed.

Graduate Studies Officer

To be named

University Librarian

Tom Eadie, B.A., M.A., M.L.S.

Director, Information Technology Services

Peter Wood, B.Sc., M.Sc.

Manager of Audio-Visual Services

William Hodgson

Manager of Network and

Telecommunication Services

Acting, Carol Cartwright

University Registrar

Susan Salusbury, B.A.

Assistant Registrars

Allan Barnfield, B.A.

Don Giles, B.Sc.

Joyce Sutton

Heads of College:

Catharine Parr Traill College

To be named

Champlain College

To be named

Lady Eaton College

A. Krüger, Staatsexamen (München)

Otonabee College

I. C. Storey, B.A. (Univ. Trin. Coll.), M.A., Ph.D. (Toronto), M. Phil. (Oxford)

Peter Gzowski College

To be named

Senior Director of Student Affairs and Community Partnerships

Meri Kim Oliver, B.A., M.T.S.

Director of Student Health Services

Anne Walters, R.N.

Director of Athletics

Bill Byrick, B.A.

Manager of Special Needs

Eunice Lund-Lucas, M.Sc.

Director of the Trent International Program

A. M. Allcott, M.A. (Utah), Ph.D. (SUNY, Buffalo)

OFFICE OF THE VICE-PRESIDENT (ADMINISTRATION)

Acting Vice-President (Administration)

Garth Brownscombe, B.A., C.G.A.

Assistant to the Vice-President (Admin.)

Martha Hendriks, M.Ed.

Associate Vice-President (Human Resources)

David Mahy, B.Sc.

Interim Director of Financial Services

Gord Savage, C.G.A.

Manager of Accounting Services and Student Financial Services

Donna Hoard, B.B.A., C.A.

Manager of Budgeting Services

Anne Parsons, B.A.S., C.A.

Manager of Purchasing Services

Lorraine Hayes, B.Sc.

Manager of University Printshop

William M. Bowers

Manager of Trent University Bookstore

Barbara Reeves

Director of Physical Resources

John Wordley, M.Sc., P. Eng.

Manager of Capital Projects

Bob van Dompsele

Manager of Security, Parking and Grounds

David McLaughlan

OFFICE OF THE VICE-PRESIDENT (ADVANCEMENT)

Vice-President (Advancement)

Susan Mackle, B.A.

Assistant to the Vice-President

Jennifer MacIsaac

Senior Manager of Development

Richard Morgan, B.A.

Director of Alumni Affairs

Anthony Storey, B.A.

ACADEMIC STAFF

- Abdella, K.**, B.Sc. (Trent), M.Sc. (Alberta), Ph.D. (Western Ontario), *Mathematics*
- Ahlstrand, B.**, B.A. (Toronto), M.Sc. (L.S.E.), D.Phil (Oxford), *Business Administration*
- Aitken, G.D.**, B.A. (Trent), M.A. (Stanford), *Modern Languages & Literatures (Spanish)*
- Anastakis, D.**, B.A. (Western), M.A., Ph.D. (York), *History*
- Andriewsky, O.**, B.A. (Brown), M.A., Ph.D. (Harvard), *History*
- Angelova, E.**, B.A. (Sofia), M.A. (Sofia/Toronto), *Philosophy*
- Arat Koc, S.**, B.A. (Bogazici), M.A. (Waterloo), Ph.D. (Toronto), *Women's Studies, Sociology*
- Archer, A.**, B.A. (Trent), B.Ed. (Nipissing), M.Ed. (Western), Ph.D. (Toronto), *Psychology*
- Arvin, M.**, B.Sc. (London), M.Phil (Oxford), Ph.D. (Queen's), *Economics*
- Atkinson, W.A.**, M.Sc. (Alberta), Ph.D. (McMaster), *Physics*
- Aubrey, J.**, M.Sc., Ph.D. (Alberta), *Psychology*
- Baban, F.**, Ph.D. (Carleton), *Political Studies*
- Bailey, S. J.**, B.A. (Queen's), M.A., Ph.D. (Toronto), *English Literature*
- Bandyopadhyay, P.**, B.A. (Calcutta), M.A. (Oxford, Manchester), Ph.D. (Manchester), *Sociology*
- Bain, A.**, B.A. (Queen's), M.A. (Toronto), Ph.D. (Cambridge), *Geography*
- Balfour, G.**, B.Sc., M.A. (Ottawa), Ph.D. (Manitoba), *Sociology*
- Baross, Z.**, B.A. (U.B.C.), M.A. (London), Ph.D. (Amsterdam), *Cultural Studies*
- Bauer, J.B.**, M.A., Ph.D. (Waterloo), *Psychology*
- Benbaruk, H.**, B.A. (Baldwin-Wallace), M.A. (McGill), *Modern Languages & Literatures (French)*
- Berard, S.**, B.A., M.A., Ph.D. (Montréal), *Modern Languages & Literatures (French)*
- Berrill, D.**, B.A. (Northwestern), M.A. (Toronto), Ph.D. (East Anglia), *Education*
- Berrill, M.**, B.Sc. (McGill), M.Sc. (Hawaii), Ph.D. (Princeton), *Biology*
- Beyers, C.**, B.A. (Trent), M.A. (York), *International Development Studies*
- Bhandar, D.**, B.A. (Queen's), M.A., Ph.D. (York), *Canadian Studies*
- Bilaniuk, S.**, B.Sc. (Toronto), A.M., Ph.D. (Dartmouth), *Mathematics*
- Binkley, D.**, B.A. (Toronto), M.L.S. (Western Ontario), M.A. (Waterloo), *Librarian*
- Bishop, J.**, B.A. (New Brunswick), M.A., M.B.A. (McMaster), Ph.D. (Edinburgh), *Business Administration*
- Bleasdale, F. A.**, B.A. (Toronto), M.A., Ph.D. (Western Ontario), *Psychology*
- Bocking, S.**, B.Sc., M.A., Ph.D. (Toronto), *Environmental & Resource Science/Studies*
- Bode, R.**, B.A., M.A., Ph.D. (Toronto), *English Literature*
- Bordo, J.**, B.A. (McGill, Alberta), M.A., M.Phil., Ph.D. (Yale), *Cultural Studies*
- Brenner, I.**, B.Sc. (Toronto), B. Phys. Ed. (Toronto), B.Sc.N. (Toronto), M.Sc. (Queen's), Ph.D. (Toronto), *Nursing*
- Brown, S.W.**, B.A., M.A. (Windsor), B.A., Ph.D. (Queen's), F.S.A (Scot.), *English Literature*
- Brunetti, C.**, B.Sc., Ph.D. (McMaster), *Biology*
- Brunger, A. G.**, B.Sc. (Southampton), M.Sc. (Alberta), Ph.D. (Western Ontario), *Geography*
- Buckman, J.**, B.A. (McGill), M.A. (Sussex), Ph.D. (Montréal), *English Literature*
- Burness, G.**, B.Sc. (Memorial), M.Sc. (Brock), Ph.D. (U.B.C.), *Biology*
- Buttle, J.**, B.A. (Toronto), Ph.D. (Southampton), *Geography*
- Campbell, K.**, B.A. (Trent), M.B.A. (Toronto), *Business Administration*
- Cater, B.**, M.A. (Toronto), Ph.D. (York), *Economics*
- Changfoot, N.**, B.A. (York), M.A. (Carleton), Ph.D. (York), *Political Studies*
- Chittick, K.**, B.A., M.A. (Toronto), Ph.D. (Edinburgh), *English Literature*
- Chivers, S.**, B.A. (Calgary), Ph.D. (McGill), *Canadian Studies, English Literature*
- Choudhry, S.**, M.A. (Chittagong, Bangladesh), M.A. (McGill), Ph.D. (Manitoba), *Economics*
- Clapp, J.**, B.A. (Michigan), M.Sc., Ph.D. (London), *International Development Studies, Environmental & Resource Science/Studies*
- Clark, L.**, B.A., M.A. (Toronto), Ph.D. (Virginia), *English Literature*
- Clark, S.**, B.A. (Liverpool), M.A. (McMaster), Ph.D. (British Columbia), *Sociology*
- Clarke, D.**, B.A. (Trent), M.A. (McMaster), Ph.D. (Carleton), *Sociology*

- Cogley, J. G.**, M.A. (Oxford), M.Sc., Ph.D. (McMaster), *Geography*
- Conley, J.**, B.A. (Alberta), M.A. (Toronto), Ph.D. (Carleton), *Sociology*
- Conolly, J.**, B.A. (Toronto), M.A., Ph.D. (London), *Anthropology*
- Conolly, L. W.**, B.A. (Wales), M.A. (McMaster), Ph.D. (Wales), *English Literature*
- Coughlan, R.**, B.A., M.A., Ph.D. (Victoria), *Psychology*
- Curtis, D. C. A.**, M.A. (Queen's), Ph.D. (McGill), *Economics*
- Dart, R.**, B.Sc. (Trent), M.E.S (York), Ph.D. (York), *Business Administration*
- Davis, L.**, B.A. (Queen's), M.A. (Sussex), M.A. (Alberta), Ph.D. (Toronto), *Native Studies*
- Dawson, P. C.**, Ph.D. (Victoria), *Physics*
- DeCicco, T.**, B.Sc. (Manitoba), M.Sc. (Trent), *Psychology*
- Dellamora, R. J.**, A.B (Dartmouth College), B.A. (Cambridge), M.Phil., Ph.D. (Yale), *Cultural Studies, English Literature*
- de Zwaan, V.**, B.A. (Trent), M.A. (McGill), Ph.D. (Toronto), *Cultural Studies*
- Dillon, P.**, B.Sc., M.Sc. Ph.D. (Toronto), *Environmental & Resource Science/Studies, Chemistry*
- Dockstator, M.** (Oneida), B.Sc. (Waterloo), L.L.B (York), D.Jur (York), *Native Studies*
- Dodge, B.**, B.A., M.A. (Toronto), Ed.D. (Toronto), *Archivist*
- Drewes, T.**, B.A. (Lakehead), M.A., Ph.D. (Queen's), *Economics*
- Driscoll, J. D.**, M.A., Ph.D. (Queen's), *Canadian Studies, Political Studies*
- Dunaway, F.**, B.A. (N.Carolina), Ph.D. (Rutgers), *History*
- Eadie, T.**, M.A. (Queen's), M.L.S. (Western Ontario), *Librarian*
- Eathorne, G. D.**, B.A. (New Zealand), M.A. (Canterbury), *English Literature*
- Eddy, C.**, B.A., M.A. (Western Ontario), Ph.D. (Toronto), *English Literature*
- El-Amir, A.**, B.A. (American University, Cairo), M.Sc. (Stirling), *Business Administration*
- Elbl, I.**, M.A. (Charles), M.A., Ph.D. (Toronto), *History*
- Emery, N.**, B.Sc. (Queen's), Ph.D. (Calgary), *Biology*
- Evans, R. D.**, B.Sc. (Toronto), Ph.D. (McGill), *Environmental & Resource Science/Studies*
- Evans, W.**, M.A., Ph.D., D.Sc (Saskatchewan), F.R.S.C., *Environmental & Resource Science/Studies, Physics*
- Fekete, J. A.**, B.A., M.A. (McGill), Ph.D. (Cambridge), *Cultural Studies*
- Feng, W.**, B.Sc. (Hebei), M.Sc. (Shaanxi), Ph.D. (Glasgow), *Computer Science/Studies*
- Fewster, I. C.**, M.A. (Manchester), *Modern Languages & Literatures (German)*
- Field, K.**, B.Mus.Ed. (Dalhousie), M.L.S. (UBC), *Librarian*
- Findon, J.**, B.A. (British Columbia), M.A., Ph.D. (Toronto), *English Literature*
- Fox, M.**, B.Sc. (Pennsylvania), M.E Des. (Calgary), Ph.D. (Queen's), *Environmental & Resource Science/Studies, Biology*
- García-Sánchez, F.**, B.A. (Havana), M.A., Ph.D. (Laval), *Modern Languages & Literatures (Spanish)*
- Genoe, M.**, B.A., M.A. (Waterloo), M.L.S. (Western Ontario), M.Phil. (Waterloo), M.P.A. (Queen's), *Librarian*
- Glassco, D. K.**, B.A. (Queen's), M.A. (Melbourne), Ph.D. (London), *English Literature*
- Hagman, R. S.**, Ph.D. (Columbia), *Modern Languages & Literatures*
- Hall, D.**, B.A. (Trent), M.A. (York), *International Development Studies, Political Studies*
- Harrison, J.**, B.A. (Saskatchewan), M.A. (Calgary), D.Phil (Oxford), *Anthropology, Women's Studies*
- Harris-Stoertz, F.**, B.A. (Calgary), M.A., Ph.D. (California), *History*
- Havas, M.**, B.Sc., Ph.D. (Toronto), *Environmental & Resource Science/Studies*
- Healy, P. F.**, B.A. (California-Berkeley), M.A., Ph.D. (Harvard), *Anthropology*
- Heitlinger, A.**, B.A. (Kent), Ph.D. (Leicester), *Sociology*
- Helleiner, E.**, B.A.(Toronto), M.A., Ph.D. (London), *International Development Studies*
- Hepburn, S.**, B.A. (Calgary, Cambridge), M.A. (McGill), Ph.D. (Cornell), *Anthropology*
- Hintelmann, H.**, B.Sc., Ph.D. (Hamburg), *Chemistry, Environmental & Resource Science/Studies*
- Hobbs, M.**, B.A. (Trent), M.A., Ph.D. (Toronto), *Women's Studies*
- Hodges, H. M.**, B.A. (Queen's), M.A., Ph.D. (Toronto), *English Literature*
- Hodgson, B. J.**, M.A. (Toronto), Ph.D. (Western Ontario), *Philosophy*

- Holdsworth, D.**, B.Sc. (Waterloo), M.Sc. (McMaster), Ph.D. (Western Ontario), *Environmental & Resource Science/Studies*
- Hollinger, V.**, M.A. (Concordia), M.Ed. (Newcastle-upon-Tyne), Ph.D. (Concordia), *Cultural Studies*
- Howes, M.**, B.Sc., M.A. (Guelph), Ph.D. (Western Ontario), *Philosophy*
- Hurl-Eamon, J.**, B.A. (U.W.O.), M.A. (Queen's), Ph.D. (York), *History*
- Hurley, R.**, B.Sc. (New Brunswick), Ph.D. (Waterloo), *Computer Science/Studies*
- Huxley, C. V.**, B.A. (York, England), M.A. (Simon Fraser), Ph.D. (Toronto), *Sociology, International Development Studies*
- Iannone, G.**, B.A. (Simon Fraser), M.A. (Trent), Ph.D. (London), *Anthropology*
- Jamieson, S.**, B.A. (McMaster), M.A. (Manitoba), Ph.D. (Washington State), *Anthropology*
- Jennings, J. N.**, B.A. (Toronto), M.A. (Calgary), Ph.D. (Toronto), *History*
- Johnston, G. A.**, B.A. (Toronto), M.A. (Harvard), *English Literature*
- Jones, E. H.**, B.A. (Saskatchewan), M.A. (Western Ontario), Ph.D. (Queen's), *History*
- Jury, J. W.**, M.Sc., Ph.D. (Toronto), *Physics, Computer Science/Studies*
- Kane, S. H. W.**, B.A. (Carleton), M.A., Ph.D. (Toronto), *Cultural Studies, English Literature*
- Kapron, C.**, B.Sc. (Waterloo), M.Sc., Ph.D. (McGill), *Biology*
- Katz, S.**, B.A. (York), M.A. (McGill), Ph.D. (York), *Sociology*
- Kay, C.**, B.A. (Toronto), M Phil (Oxford), M.A., Ph.D. (Yale), *History*
- Keefer, S.**, B.A., M.A., Ph.D. (Toronto), *English Literature*
- Keenleyside, A.**, B.A. (McMaster), B.Ed. (OISE), M.A. (Alberta), Ph.D. (McMaster), *Anthropology*
- Kennett, D.**, B.A., Ph.D. (McMaster), *Psychology*
- Kerr, L.**, B.Sc., M.Sc. (Carleton), Ph.D. (British Columbia), *Psychology, Biology*
- Kinzl, K. H.**, D.Phil (Vienna), *Ancient History & Classics, History*
- Kitchen, H. M.**, M.A. (McMaster), *Economics*
- Krüger, A.**, Staatsexamen (München), *Modern Languages & Literatures (German)*
- Lacombe, M.**, M.A., Ph.D. (York), *Canadian Studies*
- Lafleur, P.**, B.Sc. (Brandon), M.Sc. (Trent), Ph.D. (McMaster), *Geography*
- Larsen, M.**, B.A. (Toronto), B.Ed. (Mount Allison), M.A. (London, U.K), *Education*
- Lasenby, D.C.**, B.Sc. (Trent), Ph.D. (Toronto), *Biology*
- Law, A.**, B.A.S (Sydney), M.A. (Alberta), Ph.D. (Alberta), *Sociology*
- Lee, M.**, B.A., B.Ed. (Toronto), M.Ed., Ph.D. (Queen's), *Education*
- Lem, W.**, M.A., Ph.D. (Toronto), *International Development Studies, Women's Studies*
- Lew, B.**, B.Sc. (Alberta), M.B.A. (Alberta), Ph.D. (Queen's), *Economics*
- Lewars, E. G.**, B.Sc. (London), Ph.D. (Toronto), *Chemistry*
- Lewis, L.**, B.Sc.N (Toronto), M.Sc.N (Toronto), Ph.D. (Case Western Reserve), *Nursing*
- Lohmann, R.**, B.A., M.A., Ph.D. (Wisconsin-Madison), *Anthropology*
- Lowe, D.G.**, B.A. (McMaster), M.A., Ph.D. (Waterloo), *Psychology*
- Luyben, J.**, B.A., M.L.S. (Western Ontario), *Librarian*
- Manitowabi, E.**, (Anishnaabe Kwe), Mide.III, *Native Studies*
- Manning, P.**, B.A. (Reed), M.A., Ph.D. (Chicago), *Anthropology*
- Marshall, B. L.**, M.A. (Guelph), Ph.D. (Alberta), *Sociology, Women's Studies*
- Matthews, T. R.**, B.Sc. (Southampton), *Biology*
- Maxwell, C. D.**, B.Sc. (Wales), *Biology*
- Maxwell, E. A.**, M.Sc., Ph.D. (Toronto), *Mathematics*
- McCaskill, D. N.**, B.A. (Winnipeg), M.A. (Carleton), Ph.D. (York), *Native Studies*
- McDermid, D.**, B.A. (Western), M.A., Ph.D. (Brown), *Philosophy*
- McIntosh, M.**, B.A. (Queen's), M.Sc.N., M.Sc. (Toronto), *Nursing*
- McKenna Neuman, C. L.**, B.Sc. (Queen's), M.Sc. (Guelph), Ph.D. (Queen's), *Geography*
- McKinnon, C.**, B.A. (McGill), B.Phil., D.Phil (Oxford), *Philosophy*
- Meneley, A.**, B.A. (McGill) Ph.D. (New York), *Anthropology*
- Metcalfe, C.**, B.Sc. (Manitoba), M.Sc. (New Brunswick), Ph.D. (McMaster), *Environmental & Resource Science/Studies*
- Millard, J.**, B.A. (McMaster), M.L.S. (Toronto), Dipl.Cult.Con. (Victoria), *Librarian*
- Milloy, J. S.**, B.A. (St Patrick's), M.A. (Carleton), D.Phil (Oxford), *Canadian Studies, History*

- Mitchell, O. S.**, B.A., M.A. (Alberta), Ph.D. (London), *English Literature*
- Moore, J. P.**, B.A. (Wilfrid Laurier), M.A., Ph.D. (McMaster), *Ancient History & Classics*
- Morris, D.**, M.A., Ph.D. (Toronto), *Philosophy*
- Morrison, D. R.**, M.A. (Saskatchewan), D.Phil (Sussex), *International Development Studies*
- Muldoon, J.**, B.Sc. (Brock), M.A. (Guelph), Ph.D. (McMaster), *Economics*
- Mumford, M.**, B.A. (Alberta), M.F.A. (Brandeis), *Native Studies*
- Munson, M.**, B.A. (Miami), M.A., Ph.D. (New Mexico), *Anthropology*
- Murray, D.**, B.Sc. (McGill), M.Sc. (Alberta), Ph.D. (Wisconsin), *Biology, Environmental & Resource Science/Studies*
- Nader, G. A.**, B.A. (London), Ph.D. (Durham), *Geography*
- Neufeld, J. E.**, B.A. (Toronto), M.A., Ph.D. (Chicago), *English Literature*
- Neufeld, M.**, B.A. (Waterloo), M.A., Ph.D. (Carleton), *Political Studies*
- Neumann, R. M.**, B.A. (Columbia), M.A., Ph.D. (Toronto), *Philosophy*
- Newhouse, D.**, (Onondaga), B.Sc., M.B.A. (Western Ontario), *Native Studies, Business Administration*
- Nguyen-Marshall, V.**, B.A. (Dalhousie), M.A. (British Columbia), Ph.D. (British Columbia), *History*
- Nol, E.**, B.Sc. (Michigan), M.Sc. (Guelph), Ph.D. (Toronto), *Biology*
- Noriega, T. A.**, Lic en Filologia (Colombia), M.A., Ph.D. (Alberta), *Modern Languages & Literatures (Spanish)*
- Nutch, F.**, B.A. (Adelphi), M.A. (Hawaii), Ph.D. (York), *Sociology*
- O'Connor, A.**, B.A. (Trinity College, Dublin), M.A., Ph.D. (York), *Cultural Studies*
- O'Manique, C.**, B.A. (Carleton), M.A., Ph.D. (York), *Women's Studies*
- Paehlke, R. C.**, B.A. (Lehigh), M.A. (New School for Social Research), Ph.D. (British Columbia), *Political Studies, Environmental & Resource Science/Studies*
- Page, D. F. R.**, B.A., Dip.Ed (Sheffield), *Ancient History & Classics, History*
- Palmer, B.**, M.A., Ph.D. (SUNY, Binghamton), F.R.S.C., *Canadian Studies*
- Panagia, D.**, B.A. (Winnipeg), M.Litt. (Oxford), M.A., Ph.D. (Johns Hopkins), *Cultural Studies*
- Parker, J.**, B.A. (Simon Fraser), M.A., Ph.D. (York), *Psychology*
- Parnis, D.**, B.A. (Ryerson), M.A. (Toronto), Ph.D. (Carleton), *Sociology*
- Parnis, J. M.**, B.Sc., Ph.D. (Toronto), *Chemistry*
- Patrick, B.**, B.C.S (Concordia), M.Sc. (Queen's), Ph.D., M.B.A. (McGill), *Computer Science/Studies*
- Patterson, B.**, B.A., M.L.S (Western Ontario), *Business Administration*
- Patton, D.**, B.Math (Waterloo), Ph.D. (Victoria), *Physics*
- Penney, J.**, B.A., M.A. (Alberta), Ph.D. (Duke), *Cultural Studies*
- Peterman, M.**, A.B. (Princeton), M.A., Ph.D. (Toronto), *English Literature*
- Peters, K.**, M.A., Ph.D. (British Columbia), *Psychology*
- Pickel, A.**, M.A. (Guelph), Dipl.Pol (Berlin), Ph.D. (York), *Political Studies*
- Pivato, M.**, B.Sc. (Alberta), Ph.D. (Toronto), *Mathematics*
- Pollanen, M.**, B.Sc. (Carleton), M.Sc. (Toronto), *Mathematics*
- Pollock, Z. H.**, B.A. (Manitoba), Ph.D. (London), *English Literature*
- Ponce-Hernandez, R.**, B.Eng., M.Sc. (Chapingo), D.Phil (Oxford), *Environmental & Resource Science/Studies, Geography*
- Poole, D.**, B.Sc. (Acadia), M.Sc., Ph.D. (McMaster), *Mathematics*
- Popham, E.**, B.A., M.A. (Manitoba), Ph.D. (Queen's), *English Literature*
- Powell, D.**, Lic en Historia (Cordoba), Ph.D. (McGill), *International Development Studies, Anthropology*
- Quaid, M.**, B.A. (McGill), M.Sc. (L.S.E.), D.Phil (Oxford), *Business Administration*
- Rafferty, S.**, B.Sc. (Waterloo), Ph.D. (British Columbia), *Chemistry*
- Regoczei, S.**, M.Sc. (Toronto), *Computer Science/Studies*
- Reker, G. T.**, B.A. (McMaster), M.A.Sc., Ph.D. (Waterloo), *Psychology*
- Robson, S. T.**, B.A. (British Columbia), D.Phil (Oxford), *History*
- Sagarra, C.**, Ph.D. (Ottawa), *Modern Languages & Literatures (French)*
- Sangster, J.**, B.A. (Trent), M.A., Ph.D. (McMaster), *History, Women's Studies*
- Schaefer, J.**, B.Sc. (McGill), M.Sc. (Manitoba), Ph.D. (Saskatchewan), *Biology*

- Scharfe, E.**, B.A. (Western Ontario), M.A., Ph.D. (Simon Fraser), *Psychology*
- Scigliano, M.**, B.A. (Toronto), M.L.S. (Dalhousie), M.A. (Concordia), *Librarian*
- Sheinin, D.**, B.Sc. (Toronto), M.A., Ph.D. (Connecticut), *History*
- Siena, K.**, B.A. (SUNY), M.A. (Rochester), Ph.D. (Toronto), *History*
- Simpson, L.**, B.Sc. (Guelph), M.Sc. (Mount Allison), Ph.D. (Manitoba), *Native Studies, Environmental & Resource Science/Studies*
- Slavin, A. J.**, M.Sc. (Toronto), Ph.D. (Cambridge), *Physics*
- Smale, W.**, H.B.P.E., B.Ed., M.Ed., B.Sc. (Lakehead), Ph.D. (Alberta), *Education*
- Smith, C. T.**, B.Sc. (Manitoba), M.A., Ph.D. (Waterloo), *Psychology*
- Smith, M. C.**, B.A. (McGill), M.A., Ph.D. (Yale)
- Smith-Chant, B.**, B.Sc. (Trent), M.A., Ph.D. (Carleton), *Psychology*
- So, J. K.-F.**, M.A., Ph.D. (SUNY, Buffalo), *Anthropology*
- Solway, J.**, B.A. (Oakland), M.A., Ph.D. (Toronto), *International Development Studies, Anthropology*
- Sproule, C.**, M.A. (Toronto), *Psychology*
- Standen, S. D.**, B.A. (British Columbia), M.A. (Oregon), Ph.D. (Toronto), *History*
- Stapleton, T.**, B.A. (Memorial), M.A., Ph.D. (Dalhousie), *History*
- Stavro, E.**, M.A., Ph.D. (Toronto), *Philosophy, Women's Studies*
- Steffler, M.**, B.A. (Victoria), M.A., Ph.D. (McMaster), *English Literature*
- Storey, I. C.**, B.A. (Univ Trin Coll.), M.A., Ph.D. (Toronto), M.Phil (Oxford), *Ancient History & Classics*
- Struthers, J. E.**, M.A. (Carleton), Ph.D. (Toronto), *Canadian Studies, History*
- Summerfeldt, L.**, M.A., Ph.D. (York), *Psychology*
- Sutcliffe, J.**, B.Sc. (Waterloo), M.Sc., Ph.D. (Toronto), *Biology*
- Svishchev, I.**, M.Sc. (Moscow State), Ph.D. (USSR Academy of Sciences), *Chemistry*
- Tamplin, M. J.**, B.A. (Toronto), M.A. (London), Ph.D. (Arizona), *Anthropology, Computer Science/Studies*
- Taylor, C. H.**, M.A. (Canterbury), Ph.D. (McGill), *Geography*
- Taylor, G.**, B.A., Ph.D. (Pennsylvania), *History*
- Thibault, G.**, B.Ed., M.A., Ph.D. (Dalhousie), *Sociology*
- Thomas, Y.**, B.A. (UQAM), M.A., Ph.D. (Montréal), *Modern Languages & Literature (French), Cultural Studies*
- Tindale, C.**, B.A. (Wilfrid Laurier), M.A., Ph.D. (Waterloo), *Philosophy*
- Topic, J. R.**, M.A., Ph.D. (Harvard), *Anthropology*
- Torgerson, D.**, B.A. (California-Berkeley), M.E.S (York), M.A., Ph.D. (Toronto), *Cultural Studies, Political Studies*
- Tromly, F. B.**, B.A. (Grinnell), M.A., Ph.D. (Chicago), *English Literature*
- Tufts, W. S.**, B.A. (McGill), M.A. (Queen's), Ph.D. (York), *Geography*
- Vreugdenhil, A. J.**, B.Sc. (Queen's), Ph.D. (McGill), *Chemistry*
- Wadland, J. H.**, M.A. (Waterloo), Ph.D. (York), *Canadian Studies*
- Walden, K.**, M.A., Ph.D. (Queen's), *History*
- Wallschläger, D.**, Ph.D. (Bremen), *Environmental & Resource Science/Studies*
- Watson, J.**, B.A. (Carleton), B.Ed. (Lakehead), M.A. (Laurentian), M.L.S. (Western Ontario), *Library*
- Watson, P.**, M.A., Ph.D. (Western Ontario), *Psychology*
- Wernick, A. L.**, M.A. (Cambridge, Toronto), Ph.D. (Toronto), *Cultural Studies*
- Whillans, T.**, B.A. (Guelph), M.Sc., Ph.D. (Toronto), *Environmental & Resource Science/Studies*
- White, B.**, B.Sc. (Nottingham), Ph.D. (McMaster), *Biology*
- Wilson, P.**, B.Sc., M.Sc., Ph.D. (McMaster), *Biology*
- Winocur, G.**, M.A. (Manitoba), Ph.D. (Waterloo), *Psychology*
- Wortis, R.**, M.Sc., Ph.D. (Illinois), *Physics*
- Wright, R. A.**, B.A. (Trent), M.A., Ph.D. (Queen's), *History*
- Wurtele, S.**, B.Sc. (Trent), Ph.D. (Queen's), *Geography*
- Yamakami, T.**, B.Sc. (Tsukuba), M.Sc. (Shizuoka), Ph.D. (Toronto), *Computer Science/Studies*
- Yassawi, R.**, B.Sc. (London School of Economics), M.Sc., Ph.D. (McGill), *Mathematics*
- Yee, J.**, B.Sc. (Toronto), M.Sc. (Queen's), Ph.D. (British Columbia), *Biology, Chemistry*
- Young, K.**, B.A., B.Ed., M.Ed. (York), *Education*
- Zhou, B.**, B.Sc. (Shanghai), Ph.D. (South Carolina), *Mathematics*
- Znamirovski, B.**, B.A. (Queen's), M.L.S. (Dalhousie), *Librarian*
- Zohar, A.**, B.A., M.Sc., Ph.D. (York), *Business Administration*

INDEX

- A -

- Aboriginal student services 286
- About Trent 5
- Academic advising, undergraduate 281
- Academic dishonesty 16, 17
- Academic excellence (undergraduate),
 - recognition of 250
 - College prizes 274
 - International scholarships 220, 266
 - Medals 267
 - Prizes 267
 - Scholarships 260
- Academic excellence (graduate),
 - recognition of 301
 - Commonwealth Scholarship and Fellowship Plan 308
 - Ontario Graduate Scholarships (OGS) 308
 - Ontario Graduate Scholarships in Science and Technology (OGSST) 309
 - Scholarship lists via world-wide web 308
 - Scholarships - External 308
 - Scholarships - Internal 309
- Academic honesty 16
- Academic penalties 17
- Academic regulations
 - Undergraduate 12
 - Graduate 312
- Academic requirements, graduate 315
- Academic Skills Centre 281
- Academic staff 354
- Academic standing 15
 - Academic suspension 15
 - Assessment average 15
 - Good standing 15
 - Probation 15
 - Procedures for students on probation or under academic suspension 15
- Academic support services 281
- Academic suspension 15
- Adding graduate courses 315
- Administration, graduate 294
- Administrative personnel 352
- Administrative Studies (see Business Administration)
- Admissions, undergraduate 227
 - Accredited Bible colleges 231
 - Admission and re-admission 227, 235
 - Admission from another university 231
 - Admission requirements 229
 - Advanced placement courses 236
 - Advanced Placement (AP) Program 230
 - Advanced standing 234
 - Applicants for re-admission 235
 - Applicants from outside Canada (international students) 230
 - Application deadlines 227
 - Application for a second Trent degree 235
 - Canadian high school admission requirements 232
 - CEGEP 230
 - Community colleges 231
 - Concurrent Trent/Grade 12
 - course registration 229
 - Degree and diploma programs 227
 - Denying admission 235
 - General Certificate of Education (GCE) 231
 - General policy on the transfer of course credits from other Ontario universities 234
 - Institutes of technology 231
 - International Baccalaureate (IB) program 230
 - Letters of permission 234, 239
 - Mature applicants 231
 - Ontario College of Applied Arts and Technology (CAAT) 230
 - Other countries 231
 - Protection of privacy 235
 - Quebec Grade 12 230
 - Re-admission 227, 235
 - Requirements 229
 - Retention of documents 235
 - Special entry 234
 - Special students 234
 - Transfer credit 234
 - United States secondary schools 231
- Admissions, graduate 297
 - Admission requirements 297
 - Application 297
 - English proficiency requirements 298
 - Graduate Record Examinations (GRE) 298
 - Qualifying courses 297
 - Transfer of credit 297
- Advanced Placement (AP) Program 230, 236
- Advanced standing 234
- Advising, undergraduate academic 281
- Advisory services for international students 221
- Aegrotat standing
 - Undergraduate 14
 - Graduate 316
- Alumni Association 287
- Ancient Greek & Roman Studies 25
- Ancient History & Classics 24
 - Ancient Greek & Roman Studies 25
 - Greek & Latin Language & Literature 26
- Ancillary fees
 - Undergraduate 241
 - Graduate 299
- Anthropology
 - B.A. and B.Sc. 29
 - M.A. 320

- Appeals, undergraduate 16, 20
 Academic regulations 12
 Academic suspension 15
 Final grades 14
 Penalties for academic misconduct 17
 Probation 15
 Special appeals 16, 22
 Term work 16, 21
- Appeals, graduate 317
- Application, undergraduate 227
 Deadlines 227
 Diploma programs 228
 Documentation 228
 English language requirements 228
 Full-time studies 227
 Joint-programs with Fleming College 228
 Part-time studies 228
 Processing and offers of admission 228
- Application, graduate 297
 Fee 297
 Self-managed 297
- Applications of Modelling in the Natural & Social Sciences (M.A. and M.Sc.) 322
- Applied Ethics, Emphasis 210
- Archaeological Research Centre,
 Trent University 349
- Archaeology, Emphasis 210
- Assessment average 15
- Athletic program 287
- Audio-Visual Services 283
- Audit policy
 Undergraduate 244
 Graduate 315
- Average, assessment 15
- Awards
 Undergraduate 259
 Graduate 307
- B -**
- Bachelor's degrees 22
- Bachelor of Business Administration
 (B.B.A.) 50
- Bachelor of Education (B.Ed.), Consecutive 89
- Bachelor of Science (B.Sc.) 23
- Bachelor of Science in Nursing (B.Sc.N.) 169
- Bata Library 284
- Benefactors 250, 302
- Benefits, student 289
- Binding of thesis/dissertation 319
- Biochemistry & Molecular Biology 37
- Biology 38
- Board of Governors 352
- Bookstore 283
- Bursaries
 Undergraduate 252
 Graduate 304
- Bus service 287
- Business Administration 49
- C -**
- Calendar
 changes to 6
 on the Trent website 6
- Campus WorkLink 288
- Canadian Environmental Modelling Centre 347
- Canadian Studies
 B.A. 55
 & Native Studies, Frost Centre for 348
 & Native Studies, M.A. 325
 Diploma 57
 Ph.D. 329
- Canadian Year in Freiburg 156
- Careers counselling, undergraduate 288
- Catharine Parr Traill College 276
- Centre for the Study of
 Theory, Culture & Politics 347
- Champlain College 277
- Changing from part-time to full-time and
 refund of fees 246
- Cheating 17
- Chemical Physics 63
- Chemistry 64
- Child Care Centre 288
- Classical History, Emphasis 211
- Classics (see Ancient History & Classics)
- College affiliation
 Undergraduate 276
 Graduate 314
- College prizes 274
- Colleges at Trent 276
 Catharine Parr Traill College 276
 Champlain College 277
 Julian Blackburn College 278
 Lady Eaton College 278
 Otonabee College 279
 Peter Gzowski College 280
 Peter Robinson College 280
- Committee on Graduate Studies 294
- Commonwealth Scholarship and
 Fellowship Plan 308
- Community-Based Education program 206
- Comparative Development Studies
 (see International Development Studies)
- Computer Science/Studies 69
- Computing & Physics 76
- Concurrent Teaching Education program,
 Queen's-Trent 93
- Conference Services 288
- Consecutive Bachelor of Education (B.Ed.) 89
- Conservation Biology, Specialization 41
- Convocation 20
- Copyright regulations 319

Counselling	
Career Centre	288
Counselling Centre	289
Course assessment	12
Course credits	12
Course identification	24
Course load, full-time and part-time	237
Course overload	238
Course repeats	12
Course requirements, graduate	315
Course syllabuses	12
Course work, difficulties with completion of	14
Credits	12
Cultural holidays during examination period	13
Cultural Studies	76
 - D -	
Deadlines, graduate	294
Dean's Honour Roll	15
Defence of thesis/dissertation	318
Degree completion fee, graduate	300
Degree completion programs	207
Degree fee, graduate	299
Degree regulations, Master's and Doctoral	312
Degree requirements, undergraduate	22
Dental benefits, students	289
Diary, University	7
Difficulties with completion of course work	14
Diploma programs	209
Directory	366
Disclaimer	7
Dishonesty, academic	16
Dissertation requirements	315
Dissertations	317
Documentation,	
international graduate students	301
Documents, retention of	235
Dropping graduate courses	315
 - E -	
Ecological Centre, James McLean Oliver	348
Ecological Management, Specialization	107
Economics	84
Education	89
Consecutive Bachelor of Education program	89
Emphasis in Teacher Education	217
Queen's-Trent Concurrent Teacher Education program	93
School of Education and Professional Learning	89
Emergency short-term loan funds	
Undergraduate	251
Graduate	303
Emphases	210
Employment, for international	
graduate students	301
English as a second language	221
English for University	221
English Literature	96
English proficiency requirements	
Undergraduate	228
Graduate	298
Environmental & Resource Science/Studies	104
Environmental Chemistry	115
Environmental Policy Institute, Trent	348
Environmental Politics, Policy & Law, Specialization	107
Environmental Toxicology, Specialization	107
ESL	221
Examinations	13
Examining committee, thesis/dissertation	317
Extension of time limits for completion of graduate degrees	314
 - F -	
Failure to register in graduate program	312
Fees, undergraduate	240
Ancillary fees	241
Auditing courses	244
Changing from full-time to part-time and refund of fees	246
Confidentiality of student fee information	247
Domestic tuition fees	240
Health insurance for international students	244
Ineligibility to return to the University for financial reasons	246
Joint programs with Fleming College	245
Meal plan fees	242, 248
Nursing program	243
Other fees	244
Payment of fees for Fall/Winter session	240
Residence fees	242, 248
Senior citizens	245
Student association and organization fees	242
Textbooks	246
Trent University and Fleming College	222
Tuition fees	240, 299
Unpaid student accounts	246
Withdrawal from the University and refund of fees	246, 248
Fees, graduate	299
Ancillary fees	299
Degree completion fee	300
Degree fee	299
Domestic fees	299
International fees	299
Optional fees	300
Other fees	300
Residence fees	242, 248
Tuition fees	299

Fellowships, graduate	308
Film, video & media, Specialization	77
Final examinations and mid-year tests	13
Final submission of thesis/dissertation	319
Financial aid, undergraduate	250
Awards	259
Bursaries	252
Disabilities, students with	251
Emergency short-term loan funds	251
Financial aid for students from outside Ontario	251
International study awards	220
Ontario Student Assistance Program (OSAP)	250
Scholarships	260
Financial aid, graduate	301
Awards	307
Bursaries	304
Disabilities, students with	303
Emergency Short-term Loan Funds	303
Fellowships	308
Governor-General's Academic Gold Medal	309
Graduate Entrance Awards	301
Graduate teaching assistantships (GTAs)	309
Natural Sciences and Engineering Research Council (NSERC)	308
Ontario Student Assistance Program (OSAP)	250
Research assistantships (RAs)	301
Social Sciences and Humanities Research Council (SSHRC)	308
Students from outside Ontario	303
Websites for external funding	308
First Peoples House of Learning	5, 280
Fleming College	222
Food & Agriculture, Emphasis	212
Foreign universities, study at	240
Forensic Science	116
French Studies	152
Frost Centre for Canadian Studies & Native Studies	348
Full-time status	
Undergraduate	237
Graduate	312

- G -

General program	22
Geographical Information Systems, Emphasis	222
Geography	119
German Studies	155
Global Studies	127
Emphasis	212
Special concentration	127
Globalization: Communities & Identities	
Joint-major Honours program	128
Emphasis	213
Goals, statement of	6
Good standing	15
Governor-General's Academic Gold Medal	309

Grade reports, graduate	316
Grades, undergraduate	
Assessment average	15
Grade reports and transcripts	14
Grading criteria	12
Mid-year review	13
Numerical equivalents of letter grades	12, 316
Official final grades	14
Release of final grades	14
Grades, graduate	316
Graduate deadlines	294
Graduate Entrance Awards	301
Graduate Student Services	311
Graduate Students' Association	311
Graduate Studies at Trent	293
Graduate Teaching Assistantships (GTAs)	309
Graduation	20
Greek Language & Literature	26
Gzowski College (see Peter Gzowski College)	

- H -

Health benefits, students	289
Health insurance, international students	244
Health Sciences, Specialization	42
Health Services, Student	290
Health Studies, Institute for	348
Hispanic Studies	158
History	131
Holidays, cultural or religious during examination period	13
Honesty, academic	16
Honour Roll, Dean's and President's	15
Honours program	23
Housing Service, Off-campus	289
Human Resource Management, Specialization	51

- I -

Image, sound & performance, Specialization	77
In-class tests and examinations	13
Inactive status, graduate	312
Incomplete standing	
Undergraduate	14
Graduate	316
Indigenous Environmental Studies	139
Diploma	139
Specialization	139
Information Technology	283
Institute for Health Studies	348
Institute for Mass Spectrometry, Trent University	350
Institute for Materials Research	349
Institutional objectives	6
Interactive learning	5
International Baccalaureate (IB) program	230
International Development Studies	140
International educational opportunities	220

Advisory services for international students	221	Mature students	231
International Study Awards	220	Medals	267
International entrance scholarships	220	Medieval & Renaissance Studies, Emphasis	216
Other internationally oriented groups	221	Message from the President	2
Study abroad opportunities	221	Methodologies for the Study of Western History & Culture (see Theory, Culture & Politics)	
TRENT-ESL: <i>English for University</i>	221	Microfilming of thesis/dissertation	319
Trent International Program (TIP)	220	Mid-year review	13
Trent International Students' Association (TISA)	221	Mid-year tests	13
Trent International Study and Exchange Program (TISEP)	221	Minor degree	23
International entrance scholarships, undergraduate	220	Mission statement	1
International graduate students	300	Modelling in the Natural & Social Sciences, Applications of (M.A. and M.Sc.)	322
International Political Economy Joint-major Honours program	129	Modern Languages & Literatures	151
Emphasis	214	French Studies	152
International Political Economy Centre, Trent	349	German Studies	155
International prizes	275	Hispanic Studies	158
International Program, Trent (TIP)	220	Molecular Biology (see Biochemistry & Molecular Biology)	
International scholarships, undergraduate	220, 266	MTCU count date	295, 296
International students, graduate	300	Museum Studies, Special Concentration	223
International students, health insurance for	244		
International Studies (see Global Studies)		- N -	
International study awards, undergraduate	220	Native Management & Economic Development	161
		Diploma	161
- J -		Specialization	161
James McLean Oliver Ecological Centre	348	Native Studies	
Joint programs with Fleming College	222	B.A.	162
Joint-major degree	23	Diploma	164
Julian Blackburn College	224, 278	Frost Centre for Canadian Studies &	348
		M.A., Canadian Studies &, ...	325
- L -		Ph.D.	332
Lady Eaton College	278	Natural Sciences and Engineering Research Council (NSERC)	308
Language requirement, graduate students	316	Northern & Polar Studies, Emphasis	216
Late withdrawal	14	Nursing (B.Sc.N.)	169
From courses	239		
From the University	239	- O -	
Latin Language & Literature	26	Objectives, institutional	6
Law & Policy, Emphasis	214	Off-campus Housing Service	289
Leave of absence, for graduate students	313	Office of Research and Graduate Studies	293
Letters of permission	239	Office of Student Affairs	286
For admission to Trent	234	Officers of the University	352
Issued by Trent	239	Official final grades	14
Library	284	Oliver Ecological Centre, James McLean	348
Linguistics, Emphasis	215	Ontario Graduate Scholarship Program "Institutional Award"	309
		Ontario Graduate Scholarships (OGS)	308
- M -		Ontario Graduate Scholarships in Science and Technology (OGSST)	309
Major degree	22	Ontario Student Assistance Program (OSAP) Undergraduate	250
Maps	368	Graduate	302
Mass Spectrometry (TUIMS), Trent University Institute for	350	Ontario Student Opportunity Trust Fund (OSOTF)	251
Master's and Doctoral Degree regulations	312	Ontario Visiting Graduate Student Plan	317
Materials Research, Trent Institute for	349	Oshawa and part-time studies	224
Mathematics	146		

Otonabee College	279
Overload	238

- P -

Parental leave for graduate students	313
Part-time status, undergraduate	237
Academic advising	224
Application for admission	224
Changing from full-time, refund of fees	246
Course load	237
Late afternoon and evening courses	225
Student Associations	225
Summer session	238
Part-time status, graduate	312
Penalties, academic dishonesty	17
Personnel, administrative	352
Peter Gzowski College	280
Peter Robinson College	280
Petitions	20
Philosophy	174
Physics	179
Plagiarism	17
Political Studies	183
President, message from the	2
President's Honour Roll	15
Principles governing submission and examination of theses/dissertations	317
Privacy, protection of	235
Prizes, undergraduate	267
College	274
International	275
Probation	15
Programs of study	
Undergraduate	24
Graduate	320
Protection of privacy	235
Psychology	188

- Q -

Qualifying courses for entry into graduate programs	297
Québec Studies, Specialization	153
Queen's-Trent Concurrent Teacher Education program	93

- R -

Re-admission	235
Re-admit students	237
Refund of undergraduate fees	239, 248
Changing from full-time to part-time	246
Withdrawal from the University	246
Registration, undergraduate	237
Changes	239
Changing from part-time to full-time	238
Continuing students	237
Course overload	238

Definition of full-time and part-time course load	237
Fall/Winter session registration	237
Late withdrawal from courses and from the University	239
Letters of permission	234, 239
New part-time students	237
Re-admit students	237
Refunds	248
Students new to university studies	237
Students required to reduce to part-time studies	239
Study at foreign universities	240
Summer session registration	238
Transfer students	237
Withdrawal from the University	239
Registration, graduate	312
Regulations, academic	
Undergraduate	12
Graduate	312
Release of final grades	14
Religious holidays during examination period	13
Research assistantships (RAs)	301
Research Centres and Institutes	347
Research requirements, graduate	315
Residence, undergraduate	5, 276
Fees	242, 248
Residence requirements, graduate	313
Responsibilities	7
Retention of documents	235
Rights	7

- S -

Scholarship lists via world-wide web, graduate	308
Scholarships, undergraduate	260
Scholarships - External, graduate	308
Scholarships - Internal, graduate	309
School of Education and Professional Learning	89
Science	196
Science courses	23
Second Trent degree	235
Self-managed graduate application	297
Senior citizens	244
Services, graduate student	311
Services, international graduate students	301
Sir Sandford Fleming College (see Fleming College)	
Social Sciences and Humanities Research Council (SSHRC)	308
Social thought, Specialization	77
Sociology	196
Spanish (see Hispanic Studies)	
Special appeals	16, 22
Special Concentration programs	225
Special entry	234
Specializations	226
Special needs	285

Special programs and opportunities	206
Special students	234
Statistics (see Mathematics)	
Student Affairs, Office of	286
Student Association	
Undergraduate	290
Graduate	311
Student health & dental benefits	289
Student Health Services	290
Student Services, Aboriginal	286
Student Services, undergraduate	286
Student Services, graduate	311
Students from outside Ontario	251, 303
Students with special needs	285
Study abroad opportunities	130, 221
Study at foreign universities	130, 240
Submission of thesis/dissertation for examination	317
Summer session	238
Supervision, graduate	314
Suspension - academic dishonesty	15
Syllabuses	12

- T -

Teacher Education, Emphasis	217
Tests	13
Theory, Culture & Politics	
Centre for the Study of	347
M.A.	337
Theses (see Principles governing submission and examination of theses/dissertations)	
Thesis/dissertation committee	317
Thesis/dissertation requirements	315
Time limits for completion of graduate degree	313
Transcripts	14
Transfer credit	
Undergraduate	234
Graduate	297
Transfer students	237
Travel Studies, Emphasis	219
Trent Central Student Association	290
Trent Environmental Policy Institute	348
TRENT-ESL: <i>English for University</i>	221
Trent Institute for Materials Research	349
Trent International Political Economy Centre	349
Trent International Program (TIP)	220
Trent International Students' Association (TISA)	221
Trent International Study and Exchange Program (TISEP)	221
Trent/Queen's Program (various Master's and Ph.D. programs)	345
Trent University Archaeological Research Centre	349
Trent University at the University of Ontario Institute of Technology (UOIT)	225

Trent University Institute for Mass Spectrometry (TUIMS)	350
Trent University Native Association	286
Trent University Water Quality Centre	350
Tuition fees	
undergraduate	240
graduate	299

- U -

Undergraduate studies at Trent	12
University of Ontario Institute of Technology, Trent University at the	225
University diary	7
Unsatisfactory graduate work	316

- W -

Water Quality Centre, Trent University	350
Watershed Biogeochemistry Centre	350
Watershed Ecosystems (M.Sc. and Ph.D.)	340
Watershed Science Centre	350
Web application to graduate programs	297
Websites for external funding for graduate students	308
Withdrawal	
From courses	239
From the University	239
Late withdrawal from courses	239
Late withdrawal from the University	14
Withdrawal from the University and refund of fees	246
Withdrawal from the university, graduate	314
Women's Studies	201
Writing & narrative, Specialization	77

- Y -

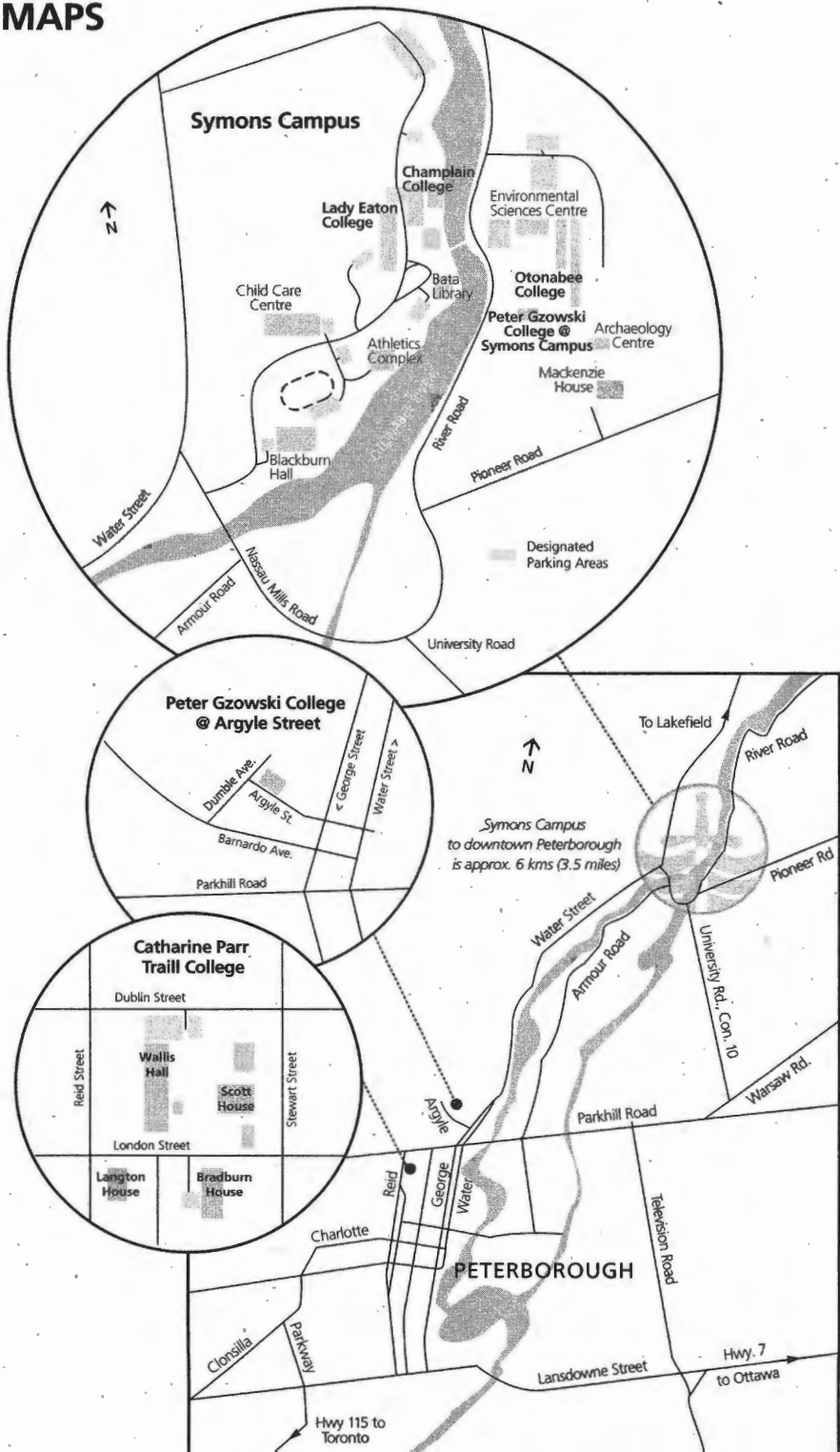
Year Abroad programs	226
Ecuador	140
France	152
Germany	155
Ghana	140
Spain	158
Thailand	162

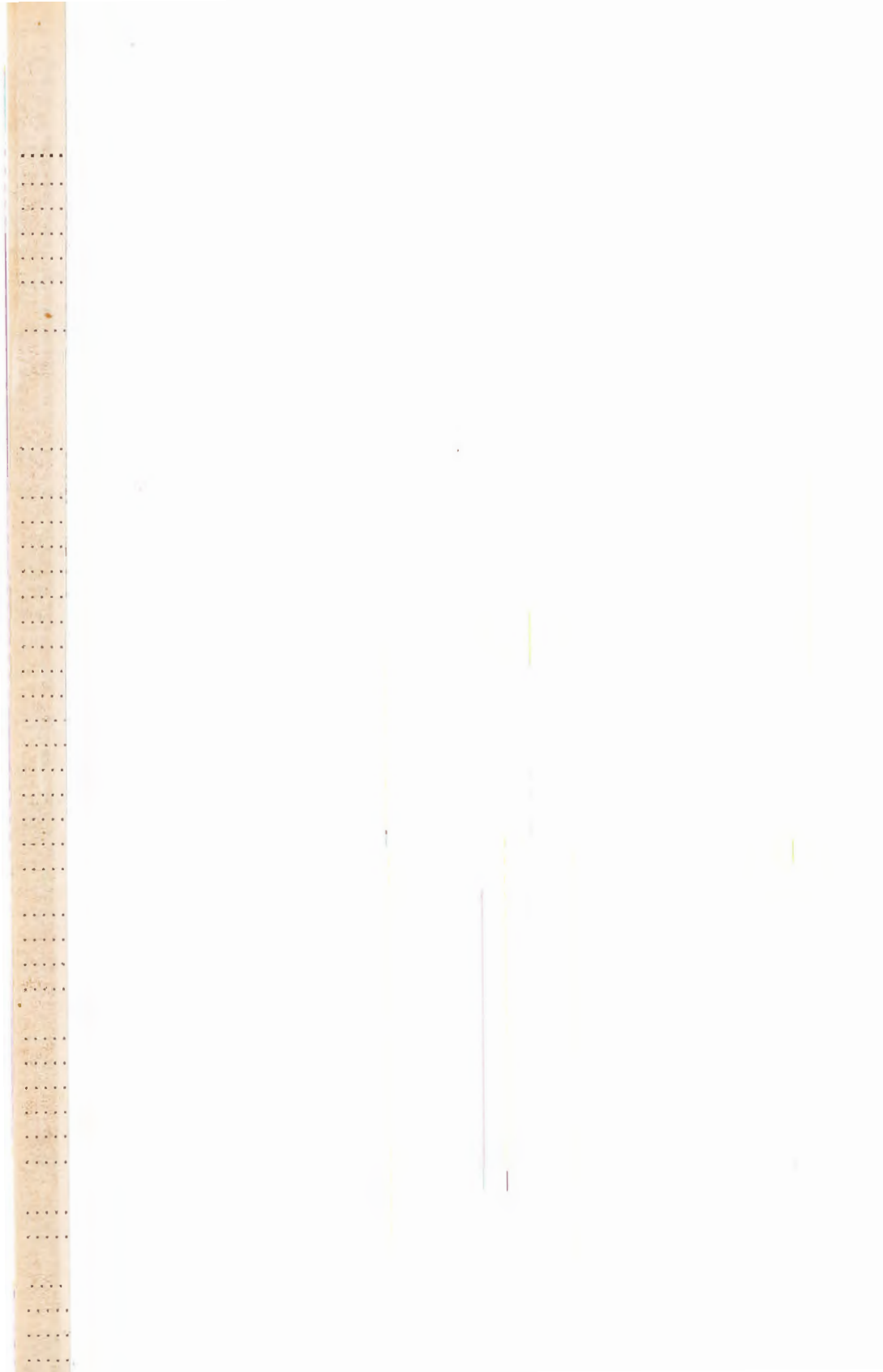
DIRECTORY

PETERBOROUGH AREA CODE (705)	PHONE	FAX
Academic Skills	748-1720	748-1830
Admissions, inquiries and application	748-1215	748-1629
Alumni Office	748-1399	748-1785
Athletics and recreation	748-1257	748-1447
Bookstore	748-1111	748-5802
Buses:		
Greyhound	743-8045	748-5321
Peterborough Transit	745-0525	
Trentway-Wagar	748-6411	
Century Coach Lines (to/from Toronto Airport)	748-3961	748-6377
Career Centre	748-1011 ext. 1385	748-1563
Colleges and Advising		
Catharine Parr Trail	748-1736	748-1721
Champlain	748-1237	748-1581
Julian Blackburn	748-1229	748-1007
Lady Eaton	748-1322	748-1630
Otonabee	748-1342	748-1335
Peter Gzowski	748-1743	748-1795
Communications Office	748-1011 ext. 1218	748-1029
Conference Services	748-1260	748-1209
Counselling	748-1386	748-1137
Dean of Arts and Science	748-1243	748-1699
Fee payments	748-1317	748-1564
Financial Aid	748-1524	748-1629
Graduate Studies	748-1011 ext. 1245	748-1587
Health Services	748-1481	748-1055
Housing, off-campus	748-1011 ext. 5128 or 872-6394	748-1109
International Program	748-1314	748-1626
Kawartha Lakes Tourism	Local 742-2201	742-2494
	Long distance 1 800-461-6424	
Library	748-1011 ext. 1391	748-1126
Parking	748-1328	748-1138
Part-time study inquiries	748-1229	748-1007
President's Office	748-1347	748-1657
Office of the Registrar	748-1215	748-1629
Registration	748-1215	748-1629
Research Office	748-1011 ext. 5075	748-1587
Scholarships	748-1524	748-1629
Security	748-1328	748-1138
Special Needs	748-1281	748-1509
TDD	748-1482	
Student Central Government	748-1000	748-1002
Student employment	748-1011 ext. 1385	748-1563
Student Affairs	748-1101 ext. 5125	748-1109
Transcript orders	748-1011 ext. 5315	748-1629
Tour of Trent campus	748-1332	748-1629
University Centre at Durham	(905) 721-3003	(905) 721-3014
Walk Home Program	742-FOOT (3668)	

.E-MAIL	.WEB
.....acdskills@trentu.ca	www.trentu.ca/acadskills
.....liaison@trentu.ca	www.trentu.ca/admissions
.....alumni@trentu.ca	www.trentu.ca/alumni
.....athletics@trentu.ca	www.trentu.ca/athletics
.....bookstore@trentu.ca	www.trentu.ca/bookstore
.....	www.greyhound.ca
.....careers@trentu.ca	www.trentu.ca/careers
.....trail@trentu.ca	www.trentu.ca/colleges/trail.html
.....champlain@trentu.ca	www.trentu.ca/colleges/champlain.html
.....jbc@trentu.ca	www.trentu.ca/jbc
.....eaton@trentu.ca	www.trentu.ca/colleges/eaton.html
.....otonabee@trentu.ca	www.trentu.ca/colleges/otonabee.html
.....to be announced	www.trentu.ca/colleges/gzowski.html
.....communications@trentu.ca	www.trentu.ca/communications
.....conferences@trentu.ca	www.trentu.ca/conference
.....counselling@trentu.ca	www.trentu.ca/careers
.....	www.trentu.ca/deansoffice
.....	www.trentu.ca/financialservices
.....financialaid@trentu.ca	www.trentu.ca/registrar
.....graduate@trentu.ca	www.trentu.ca/graduate
.....awalter@trentu.ca	www.trentu.ca/healthserv
.....housing@trentu.ca	www.trentu.ca/housing
.....tip@trentu.ca	www.trentu.ca/tip
.....info@thekawarthas.net	www.thekawarthas.net
.....circoffice@trentu.ca	www.trentu.ca/library
.....security@trentu.ca	www.trentu.ca/admin/Security.html
.....jbc@trentu.ca	www.trentu.ca/jbc
.....registrar@trentu.ca	www.trentu.ca/registrar
.....registrar@trentu.ca	www.trentu.ca/registrar
.....research@trentu.ca	www.trentu.ca/research
.....registrar@trentu.ca	www.trentu.ca/registrar
.....security@trentu.ca	www.trentu.ca/admin/Security.html
.....specialneeds@trentu.ca	www.trentu.ca/specialneeds
.....tcsa@trentu.ca	www.trentu.ca/tcsa
.....careers@trentu.ca	www.trentu.ca/careers
.....	www.trentu.ca/registrar/transcript.html
.....liaison@trentu.ca	www.trentu.ca/registrar/CampTour.html
.....jeanmilovick@durham.on.ca	www.trentu.ca/jbc
.....security@trentu.ca	www.trena/admin/Security.htm

MAPS







1600 West Bank Drive
Peterborough, Ontario, Canada
K9J 7B8

1 888 739-8885

(705) 748-1332

www.trentu.ca